

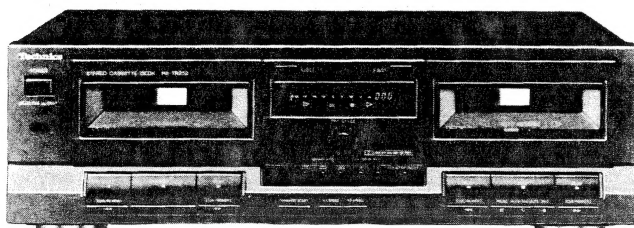
Service Manual

Stereo Cassette Deck

Cassette Deck

RS-TR252

*
 DOLBY B-C NR HX PRO



*Dolby noise reduction and HX PRO headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX PRO originated by Bang and Olufsen. "Dolby", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(GC)	Asia, Latin America, Middle Near East and Africa.	(K)
(GN)	Oceania.	

Please file and use this manual together with the service manual for Model No. RS-TR262, Order No. MD9412200C1.

Note: • This service manual is provided to indicate the main differences between the original model No. RS-TR262 (P) and the subsequent model No. RS-TR252 (GC, GN).

ADDITION

ACCESSORIES

[For (GC) area.]

AC CORD ADAPTOR

(SJP5213-2) 1 pc.



CHANGES

SPECIFICATIONS

RS-TR262 (P)

CASSETTE DECK SECTION

Frequency response (Dolby NR off)

NORMAL

40 Hz~15 kHz ±3 dB
20 Hz~17 kHzCrO₂40 Hz~15 kHz ±3 dB
20 Hz~17 kHz

METAL

40 Hz~16 kHz ±3 dB
20 Hz~18 kHz

GENERAL

Power consumption

17 W

Power supply

AC 60 Hz, 120 V

RS-TR252 (GC, GN)

CASSETTE DECK SECTION

Frequency response (Dolby NR off)

NORMAL

40 Hz~15 kHz ±3 dB
20 Hz~16 kHz (DIN)CrO₂40 Hz~15 kHz ±3 dB
20 Hz~16 kHz (DIN)

METAL

40 Hz~16 kHz ±3 dB
20 Hz~17 kHz (DIN)

GENERAL

Power consumption

[For (GC) area.]

22 W

[For (GN) area.]

20 W

Power supply

[For (GC) area.] AC 50 Hz/60 Hz, 110 V/127 V/220 V/230~240 V

[For (GN) area.] AC 50 Hz/60 Hz, 230~240 V

△ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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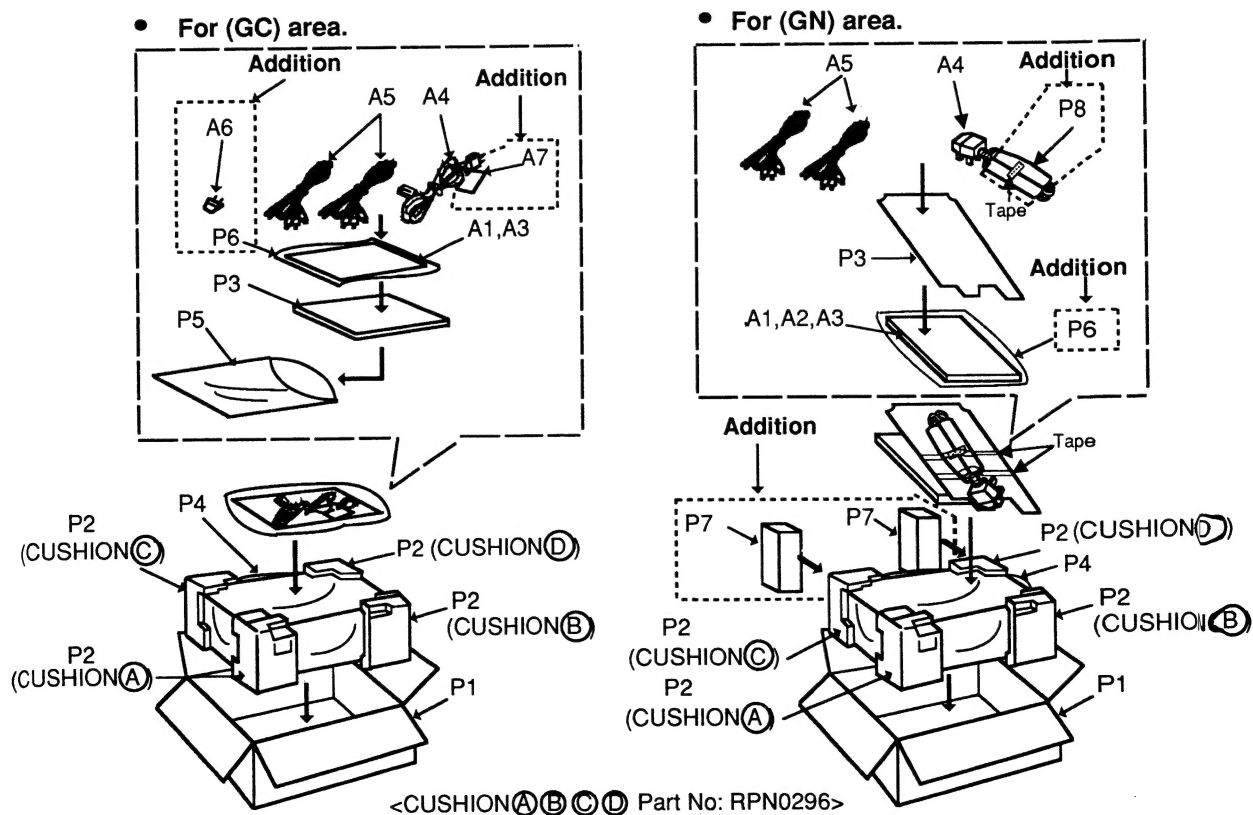
■ CHANGE IN REPLACEMENT PARTS LIST
(RS-TR262 Service Manual Pages 29~32, 41.)

- Notes:**
- Mentioned in this parts list is only those different from Model No. RS-TR262 (P). All other parts are the same as for RS-TR262 (P).
 - Important safety notice:
Components identified by \triangle mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
 - The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.) Parts without these indications can be used for all areas.
 - [M] Indicates in the Remarks columns indicates parts supplied by MESA.
 - The "(SF)" mark denotes the standard part.

Ref. No.	Change of Parts No.		Part Name & Description	Remarks
	RS-TR262 (P)	RS-TR252 (GC, GN)		
TRANSISTOR(S)				
Q304	KSD471ACYGTA	2SD2037ETA	TRANSISTOR	
Q701	2SC3311AR	—	TRANSISTOR	Deletion
VARIABLE RESISTOR(S)				
VR702	EVJ02SF02G15	—	BALANCE	Deletion
TRANSFORMER(S)				
T1	RTP1K4C008-V	RTP1K4E015-V	POWER TRANSFORMER	(GC) △
		RTP1K4E014-V	POWER TRANSFORMER	(GN) △
JACK(S)				
JK701	SJSD16	SJS9236	AC INLET	(GC) △
		SJSD16	AC INLET	(GN) △
JK702	SJS9331B	—	AC OUTLET	△ Deletion
JK703	—	RSR4A001S-H	VOLTAGE SELECTOR	[M] (GC) △ Addition
		—	—	(GN)
RESISTORS				
R609	ERD2FCVG150T	ERD2FCVG120T	1/4W 12Ω	△
R610	ERD2FCVG180T	ERD2FCVG150T	1/4W 15Ω	△
R633, 634	ERD2FCVG330T	ERD2FCVG150T	1/4W 15Ω	△
R635	ERDS2TJ120T	ERDS1FVJ180T	1/2W 18Ω	△
R636	ERDS2TJ100	ERDS1FVJ220T	1/2W 22Ω	△
R723	ERDS2TJ153	—	1/4W 15kΩ	Deletion
R724	ERDS2TJ102	ERDS2TJ223	1/4W 22kΩ	
R725	ERDS2TJ102	ERDS2TJ823	1/4W 82kΩ	
R726, 727	ERDS2TJ562	—	1/4W 5.6kΩ	Deletion
CAPACITOR				
C702	ECBT1E103ZF	—	25V 0.01μF	Deletion
CABINET AND CHASSIS				
2	RFKLSTR262PK	RFKLSTR252PA	CASSETTE LID ASS'Y (DECK 1)	[M]
6	RGR0112K-B1	RGR0112L-A	REAR PANEL	[M] (GC)
		RGR0112M-A	REAR PANEL	[M] (GN)
7	RMK0026-7	RFKJTR252GCK	BOTTOM CHASSIS ASS'Y	[M]
7-1	—	RFKNSTR252PK	FOOT ASS'Y	[M] Addition
12	RFKGSTR262PK	RFKGSTR252PK	FRONT PANEL ASS'Y	[M]
19	RGW0110-K	—	KNOB, BALANCE	Deletion
20	RFK0169A-K	RFK0169-K	CASSETTE HOLDER	
34	RFKNSTR252PK	—	FOOT ASS'Y	[M] Deletion
35	XTB3+6J	—	SCREW	Deletion

Ref. No.	Change of Parts No.		Part Name & Description	Remarks
	RS-TR262 (P)	➡RS-TR252 (GC, GN)		
PACKING MATERIAL				
P1	RPG2306	RPG2524	CARTON BOX	[M] (GC)
		RPG2525	CARTON BOX	[M] (GN)
P3	RPQ0164	RPQ0164	ACCESSORIES PAD	(GC)
		RPQ0350-2	ACCESSORIES PAD	(GN)
P5	XZB24X34C04	XZB24X34C04	PROTECTION BAG (F.B., ACC.)	(GC)
		—	—	(GN) Deletion
P6	—	SPB1061	PROTECTION BAG (F.B.)	Addition
P7	—	—	—	(GC)
		RPN0705	CUSHION	[M] (GN) Addition
P8	—	—	—	(GC)
		RPH0032	MIRROR SHEET	(GN) Addition
ACCESSORIES				
A1	RQT2705-P	RFKSTR252GCK	INSTRUCTION MANUAL ASS'Y	[M] (GC)
		RQT2987-G	INSTRUCTION MANUAL	[M] (GN)
A2	RQA0085	—	—	(GC) Deletion
		RQX7433ZA	WARRANTY CARD	(GN)
A3	RQCB0391	RQCB0169	SERVICENTER LIST	
A4	SJA172	RJA0019-2K	AC POWER SUPPLY CORD	(GC) △ (SF)
		RJA0036-K	AC POWER SUPPLY CORD	(GN) △ (SF)
A6	—	SJP5213-2	AC CORD ADAPTOR	(GC) △ Addition
		—	—	(GN)
A7	—	RQE13ZC	VOLTAGE CAUTION LABEL	[M] (GC) Addition
		—	—	(GN)

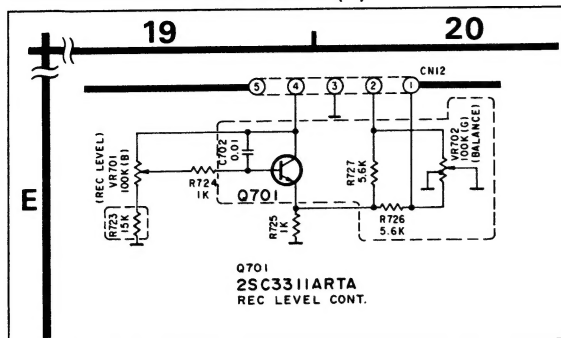
■ PACKAGING (RS-TR262 Service Manual Page 41.)



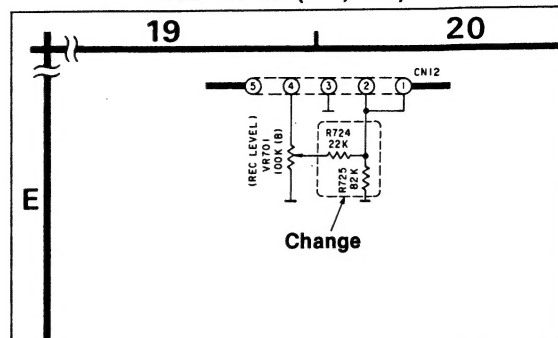
SCHEMATIC DIAGRAM (RS-TR262 Service Manual Pages 20, 24.)

H OPERATION (DECK2) CIRCUIT

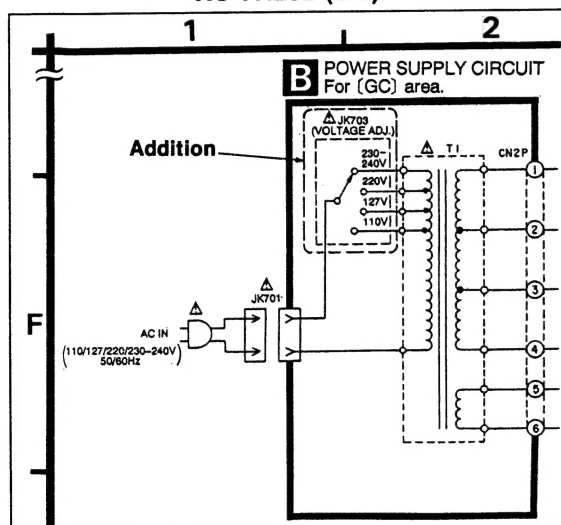
RS-TR262 (P)



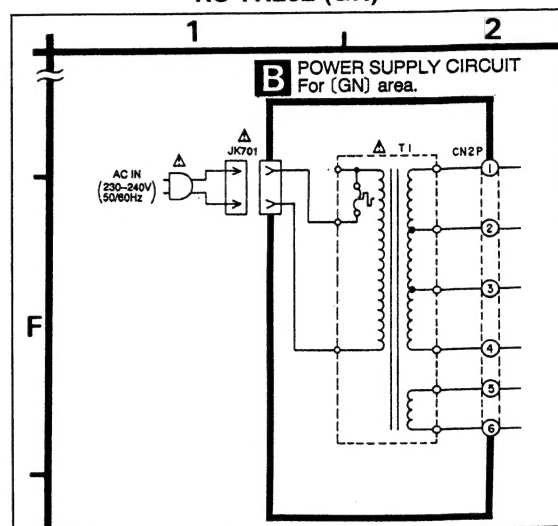
RS-TR252 (GC, GN)



RS-TR252 (GC)



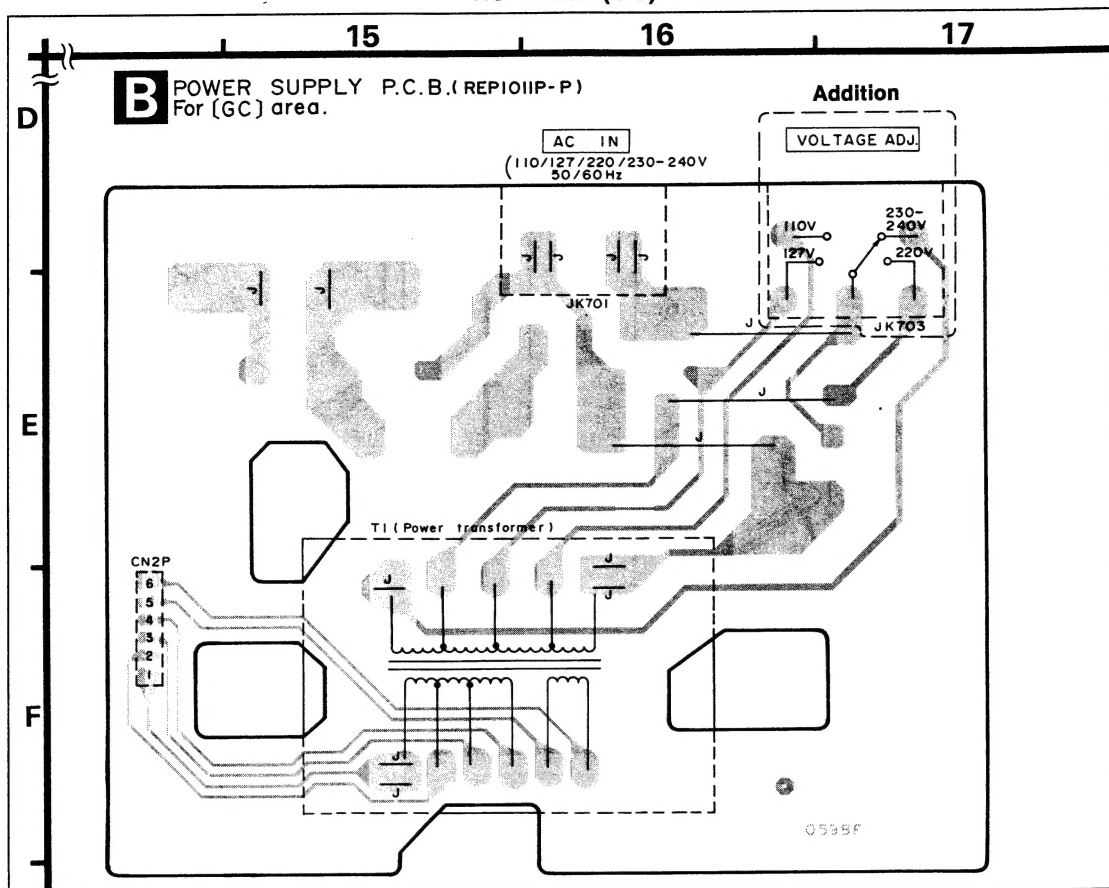
RS-TR252 (GN)



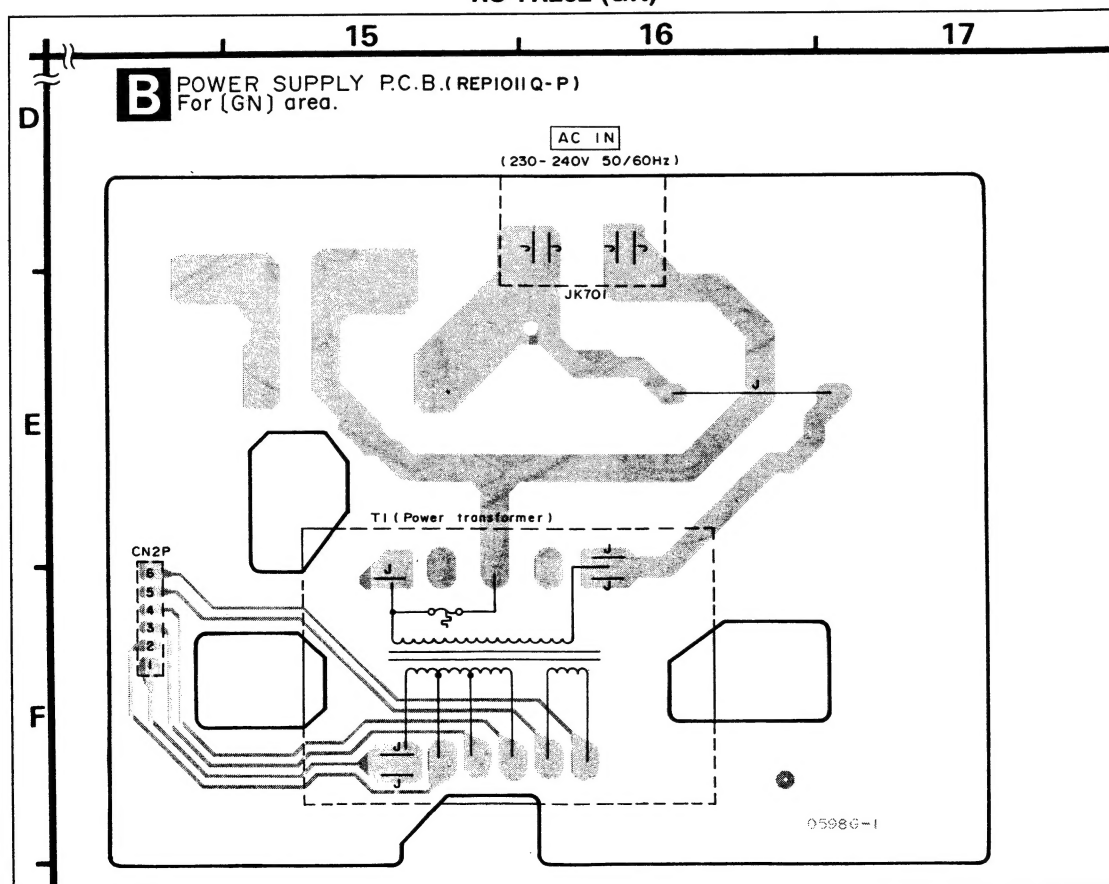
PRINTED CIRCUIT BOARD (RS-TR262 Service Manual Pages 17, 18.)

RS-TR262 (P)

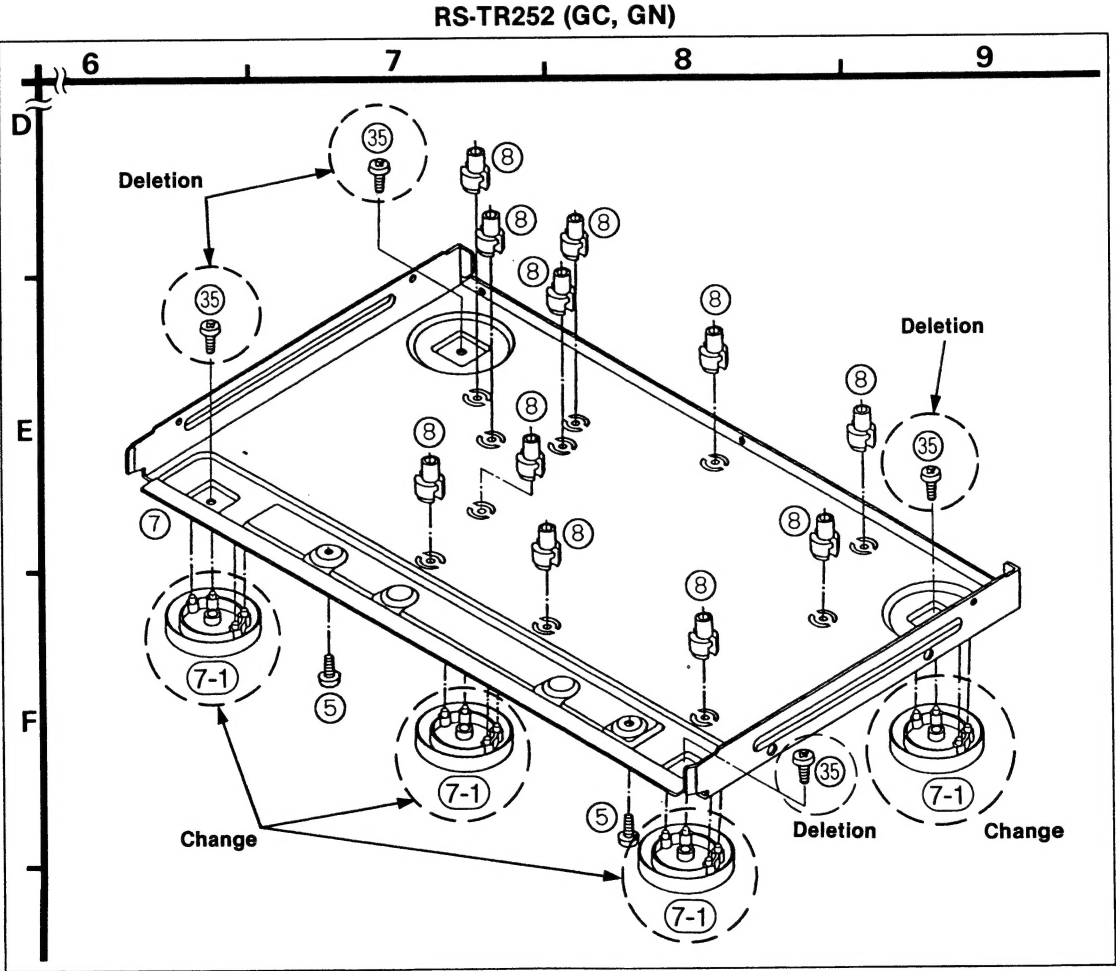
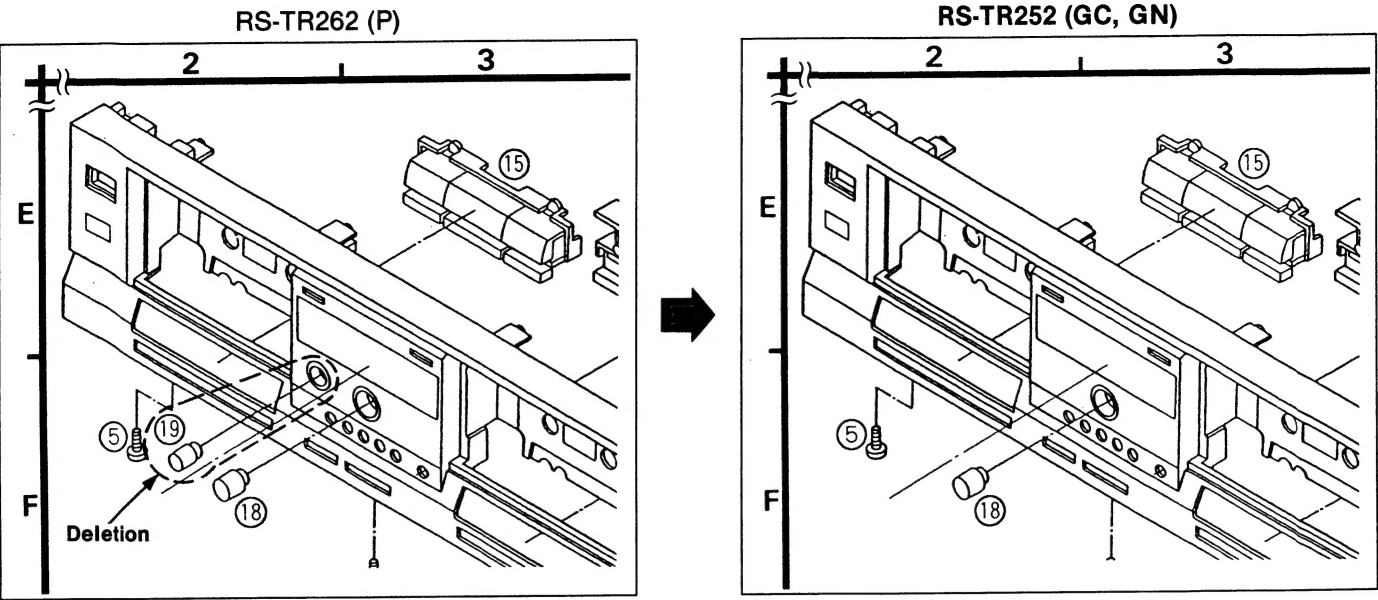
RS-TR252 (GC)



RS-TR252 (GN)



■ EXPLODED VIEWS (RS-TR262 Service Manual Pages 39, 40.)



Service Manual

Stereo Cassette Deck

Cassette Deck
RS-TR262

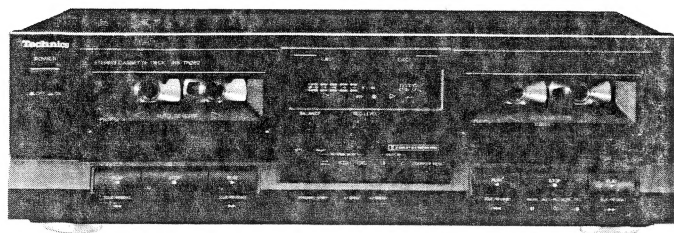


Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(P)	U.S.A.	(K)



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RS-T330R MECHANISM SERIES (AR300)

SPECIFICATIONS

■ CASSETTE DECK SECTION

Deck system	Stereo cassette deck
Track system	4-track, 2-channel
Recording system	AC bias
Bias frequency	80kHz
Erasing system	AC erase
Heads	
Deck 1	Playback head (Permalloy) × 1
Deck 2	Recording/Playback head (Permalloy) × 1
	Erasing head (Double-gap ferrite) × 1
Motors	
Deck 1	Capstan/Reel table drive (DC servo motor) × 1
Deck 2	Capstan/Reel table drive (DC servo motor) × 1
Tape speed	4.8cm/sec. (17 $\frac{7}{8}$ ips)
Wow and flutter	0.14% (WRMS)
Fast forward and rewind times	Approx. 110 seconds with C-60 cassette tape
Frequency response (Dolby NR off)	
NORMAL	40Hz~15kHz±3dB 20Hz~17kHz
CrO ₂	40Hz~15kHz±3dB 20Hz~17kHz
METAL	40Hz~16kHz±3dB 20Hz~18kHz

S/N (Signal level=max recording level, CrO₂ type tape)

NR off	56dB (A weighted)
Dolby B NR on	66dB (A weighted)
Dolby C NR on	74dB (A weighted)

Input sensitivity and impedance

REC (IN) 50 mV/47kΩ

Output voltage and impedance

PLAY (OUT) 400 mV/800Ω

■ GENERAL

Power consumption 17W

Power supply AC 50 Hz, 120V

Dimensions (W × H × D)

430 × 136 × 290mm
(16 $\frac{15}{16}$ " × 5 $\frac{3}{8}$ " × 11 $\frac{13}{32}$ ")

Weight

4.7kg (10.4lb.)

Note:

Specifications are subject to change without notice.
Weight and dimensions are approximate.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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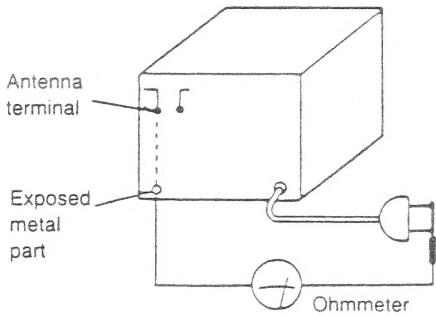
■ SAFETY PRECAUTION (This "safety precaution" is applied only in U.S.A.)

- 1. Before servicing, unplug the power cord to prevent an electric shock.
- 2. When replacing parts, use only manufacturer's recommended components for safety.
- 3. Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
- 5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

● INSULATION RESISTANCE TEST

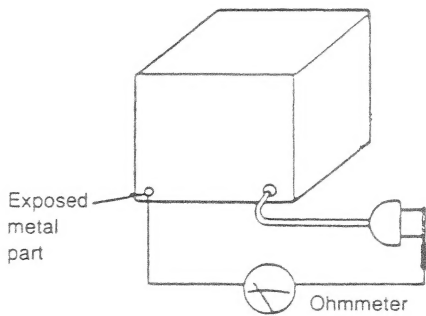
- 1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
- 2. Turn on the power switch.
- 3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3 MΩ and 5.2 MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance=3 MΩ-5.2 MΩ

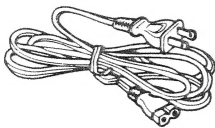


(Fig. B)

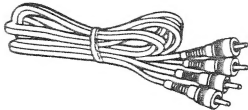
Resistance=Approx. ∞

- 4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ ACCESSORIES



AC power supply cord
(SJA172) 1 pc.



Stereo connection cable
(SJP2249-3)..... 2 pcs.

■ CONNECTIONS

Before making connections, make sure that the power to this unit and all other system components is turned off first.

Note

Avoid letting the cables touch each other as much as possible, otherwise noise will be generated.

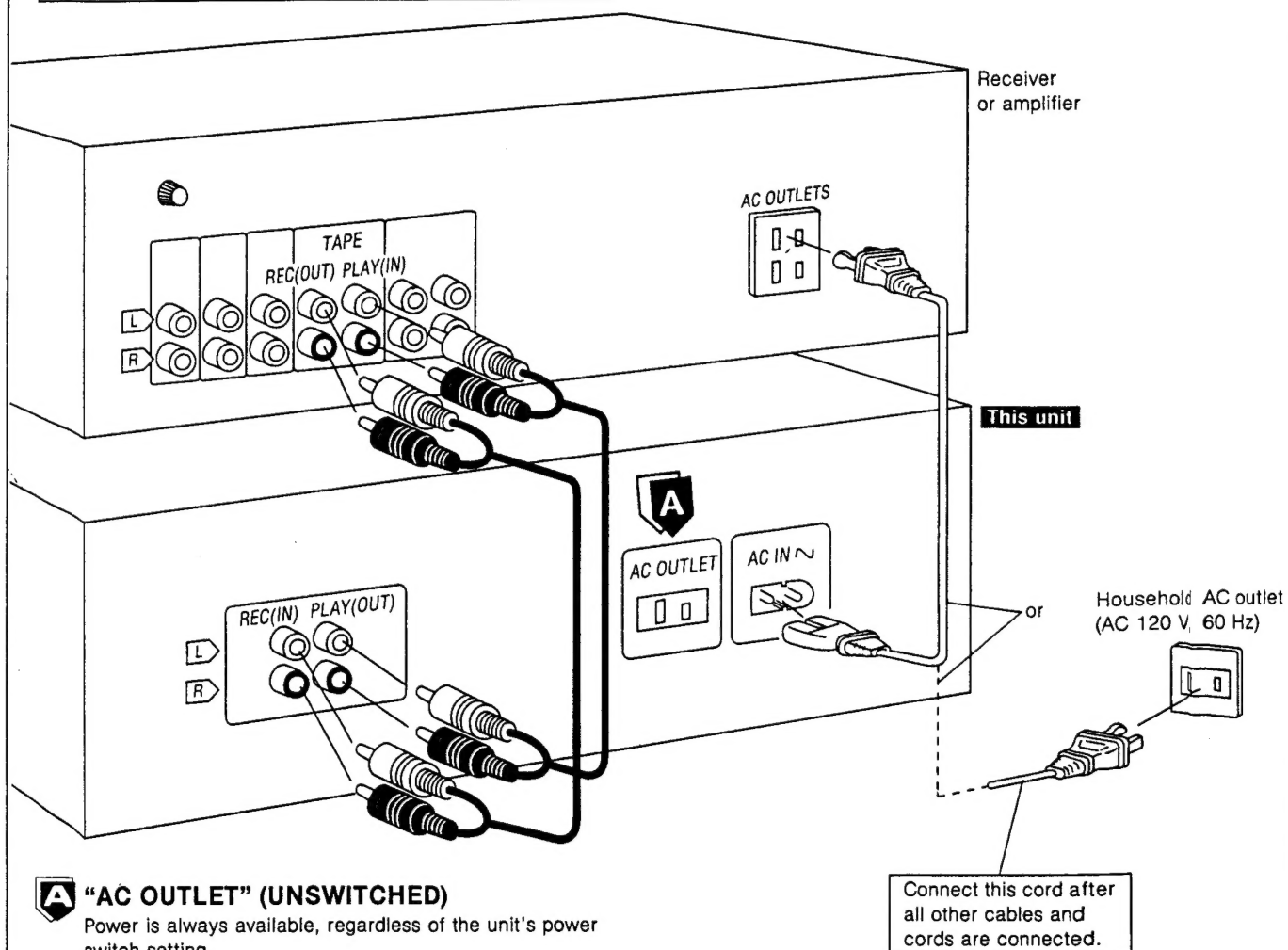
Stereo connection cable

White (L) 
Red (R) 

Placements hints

If this unit is placed near a receiver or a tuner, a "hum" noise may be heard during tape playback, recording, or AM reception of the receiver or the tuner.

If this occurs, leave as much space as possible between the units, or place them where there is the least amount of "hum".

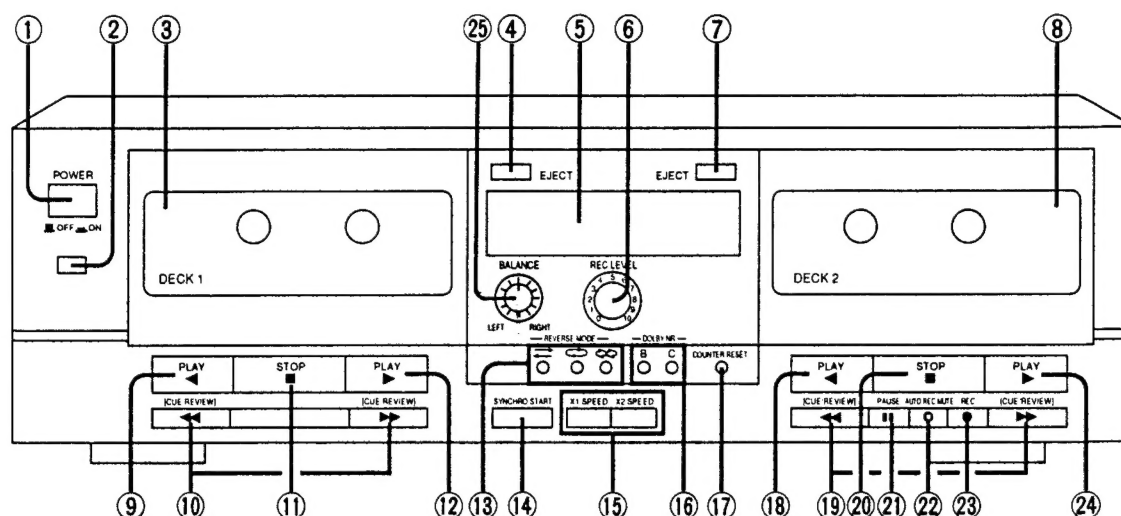


"AC OUTLET" (UNSWITCHED)

Power is always available, regardless of the unit's power switch setting.

Audio equipment rated up to 100 W can be connected.

■ LOCATION OF CONTROLS

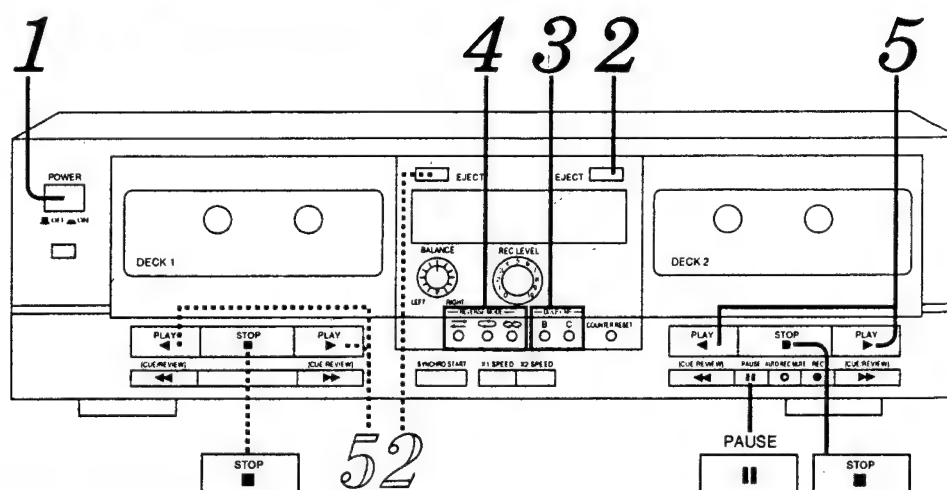


No.	Name
①	Power switch (POWER, OFF ON)
②	Remote control signal receptor (Refer to "About the remote control function" on page 6.)
③	Cassette holder for deck 1
④	Eject button for deck 1 (EJECT)
⑤	Display
⑥	Recording-level control (REC LEVEL)
⑦	Eject button for deck 2 (EJECT)
⑧	Cassette holder for deck 2
⑨	Reverse-side playback button for deck 1 (◀ PLAY)
⑩	Fast-forward/cue, rewind/review buttons for deck 1 (◀◀/▶▶ [CUE/REVIEW])
⑪	Stop button for deck 1 (■ STOP)
⑫	Forward-side playback button for deck 1 (▶ PLAY)
⑬	Reverse-mode select buttons (REVERSE MODE)
⑭	Synchro-start button (SYNCHRO START)
⑮	Tape-to-tape recording-speed buttons (×1 SPEED, ×2 SPEED)

No.	Name
⑯	Dolby noise-reduction buttons (DOLBY NR)
⑰	Counter reset button (COUNTER RESET)
⑱	Reverse-side playback button for deck 2 (◀ PLAY)
⑲	Fast-forward/cue, rewind/review buttons for deck 2 (◀◀/▶▶ [CUE/REVIEW])
⑳	Stop button for deck 2 (■ STOP)
㉑	Pause button (PAUSE)
㉒	Automatic-record-muting button (● AUTO REC MUTE)
㉓	Record button (● REC)
㉔	Forward-side playback button for deck 2 (▶ PLAY)
㉕	Recording-balance control (BALANCE)

PLAY BACK

Either normal, CrO₂ or metal type cassettes can be used.



The procedures described below are an example of playback on Deck 2.

1 **POWER** **Press POWER.**
(The unit will switch on.)

2 **EJECT** **Press EJECT, and then insert the cassette tape.**

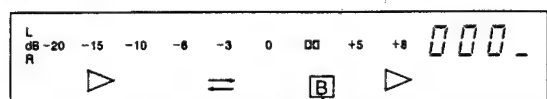
Forward side Reverse side

Tape opening facing downward.

3 **DOLBY NR B C** **Press either DOLBY NR B or C to select the appropriate noise-reduction system.**

B Press if the tape was recorded by the type-B Dolby NR system.
(The "B" Dolby noise-reduction indicator will then illuminate.)

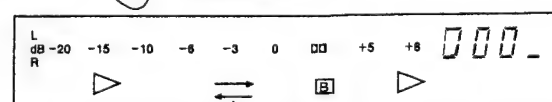
C Press if the tape was recorded by the type-C Dolby NR system.
(The "C" Dolby noise-reduction indicator will then illuminate.)



Dolby noise-reduction indicator (**B** or **C**)

If neither Dolby noise-reduction system was used, press the button corresponding to the Dolby noise-reduction indicator that is illuminated. (The indicator will then switch OFF.)

4 **REVERSE MODE** **Press \Rightarrow , \Leftrightarrow or ∞ to select the desired reverse mode.**



Reverse-mode indicator (\Rightarrow , \Leftrightarrow or ∞)

\Rightarrow : One side only.

\Leftrightarrow : Both sides repeatedly (up to 8 times).

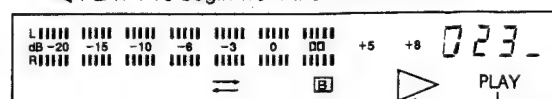
∞ : Both sides, once only.

(Refer to page 6.)

5 **PLAY** **Press \blacktriangleleft PLAY or \blacktriangleright PLAY.**
(Playback will begin.)

\blacktriangleright PLAY : To begin from the forward side.

\blacktriangleleft PLAY : To begin from the reverse side.



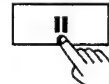
Illuminates
Indicates the side being played.

To play back on Deck 1, in steps 2 and 5 above, press the buttons (**2** and **5**) for Deck 1.

To temporarily stop playback

(Deck 2 only)

PAUSE **Press \parallel PAUSE.**



The "PLAY" indicator will flash.

To resume playback, press the play button corresponding to the side of the tape being played.

To stop playback

STOP **Press \blacksquare STOP.**



The "PLAY" indicator will switch off.

Reverse function

The reverse function on this unit has three modes (↔, ↺, ↻). Read the descriptions below and select the mode as desired. (Refer to step 4 on page 5.)

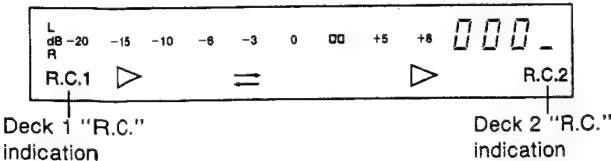
Mode	Tape travel
↔	Only one side of the tape (either the forward side or the reverse side) will be played, and operation will automatically stop when playback has been completed.
↺	Both sides of the tape will be played repeatedly eight times, and then operation will automatically stop. (If playback is begun from the reverse side, the forward side will be played seven times.)
↻	When there is a tape in only one of the decks Both sides of the tape will be played once, and then operation will automatically stop. (If playback is begun from the reverse side, the forward side will not be played.) When there is a tape in each of the decks The forward and reverse sides of the tape in Deck 1 will be played, followed by the forward and reverse sides of the tape in Deck 2, and after this operation is repeated eight times, operation will automatically stop. (If playback is begun from Deck 2, the tape in Deck 1 will be played seven times.)

About the automatic-tape-select function

This unit is equipped with the automatic-tape-select feature; it automatically detects the type of tape being used, and then makes the suitable adjustments of the bias and equalization accordingly.

About the remote control function

This cassette deck can be operated by using the remote control provided with a Technics receiver. (For detailed information, refer to the operating instructions of the receiver.) During operation from the remote control, the "R.C." indicator will light up.



About the Dolby noise-reduction system

The Dolby noise-reduction system is designed to effectively reduce the annoying high-frequency "hissing" noise typical of cassette tapes. During recording, the system functions to increase the high-frequency sound level, the sound, and then, during playback, that same portion is weakened to bring it back to the previous level.

This unit includes two types of Dolby noise-reduction systems, the Dolby B NR-type and C NR-type.

Dolby B-type noise-reduction

Noise is reduced to about one-third. Use this system when playing back tapes recorded by the Dolby-B noise-reduction system, such as prerecorded music tapes, etc.

Dolby C-type noise-reduction

Noise is reduced to about one-tenth. Use this system for the recording and playback of sound sources that have a wide dynamic range and good tone quality, such as FM broadcasts of live performances, etc., and for playing back such tapes.

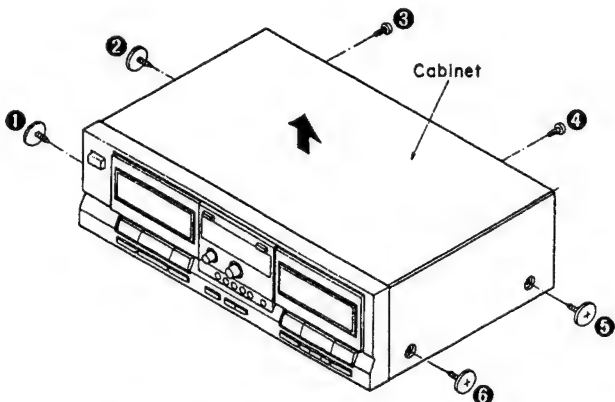
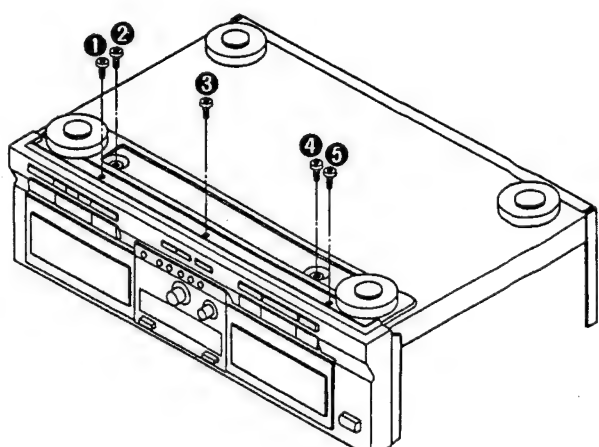
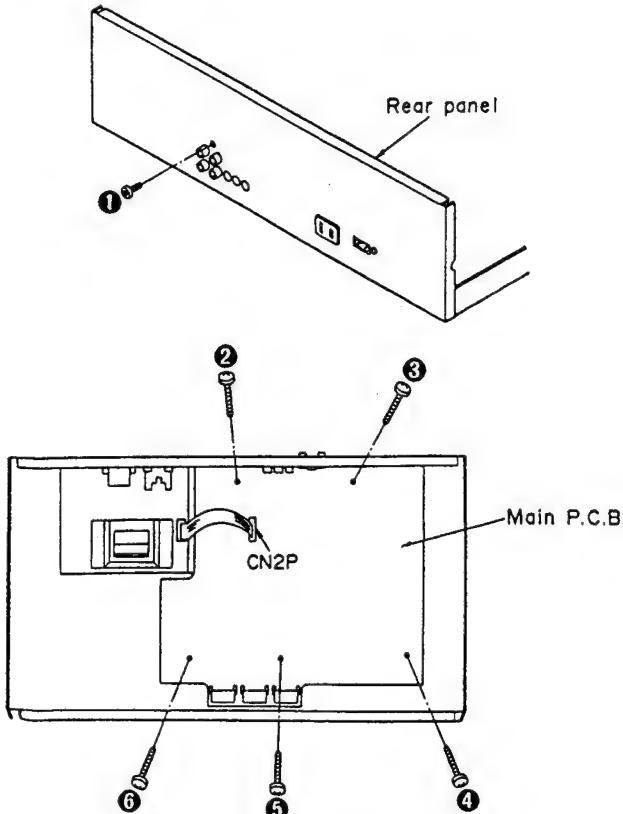
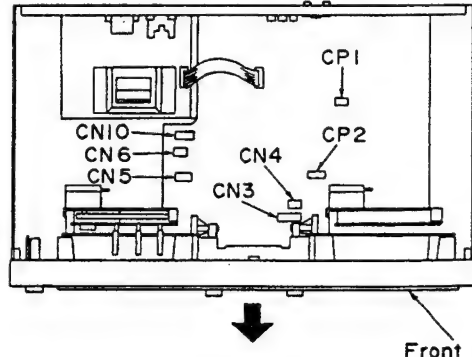
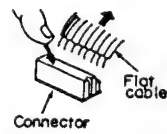
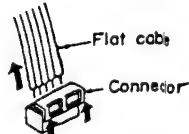
About the Dolby HX-Pro headroom extension system

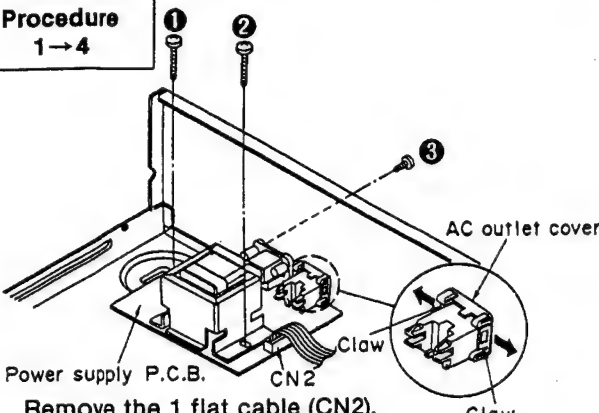
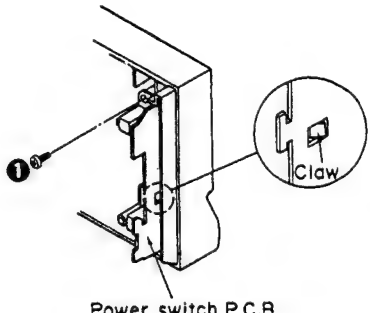
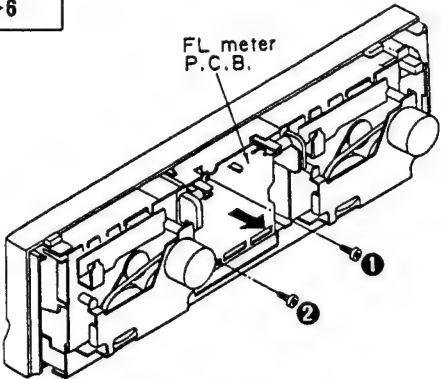
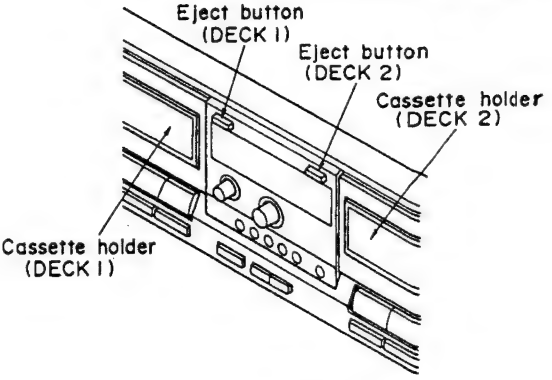
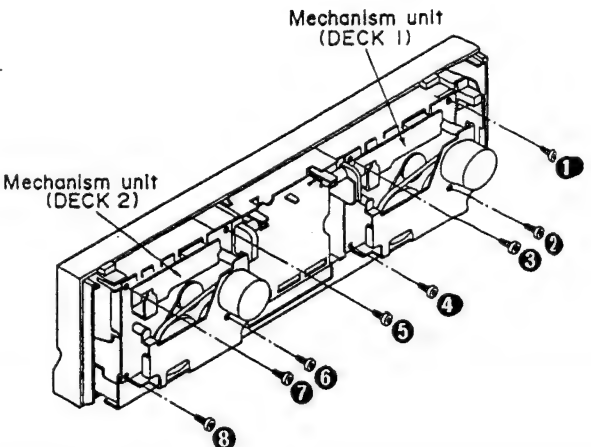
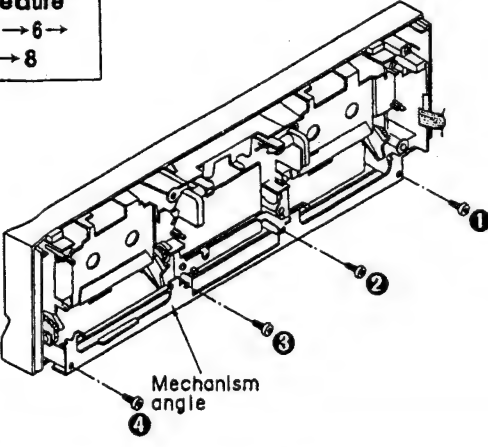
By functioning to improve the maximum output level of the tape's high-frequency range, this system permits recordings without a reduction in the level of the sound source's high-frequency range. In addition, by using the system in parallel with this unit's noise-reduction system, recording and playback with a greatly extended dynamic range is possible.

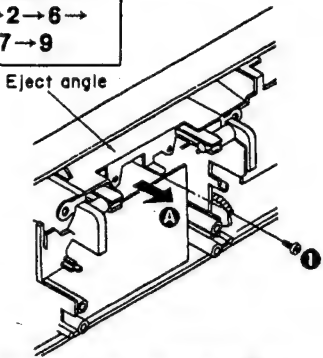
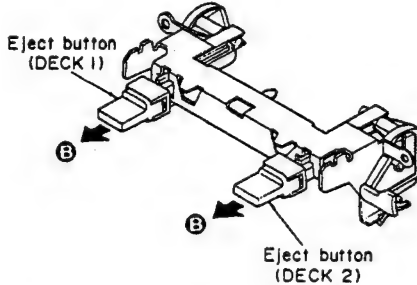
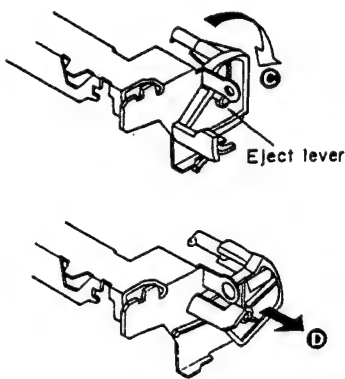
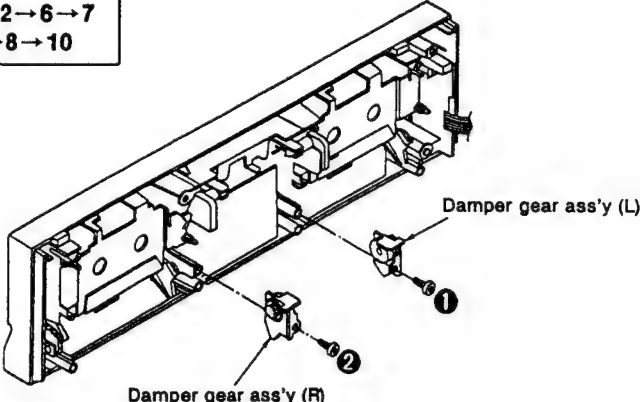
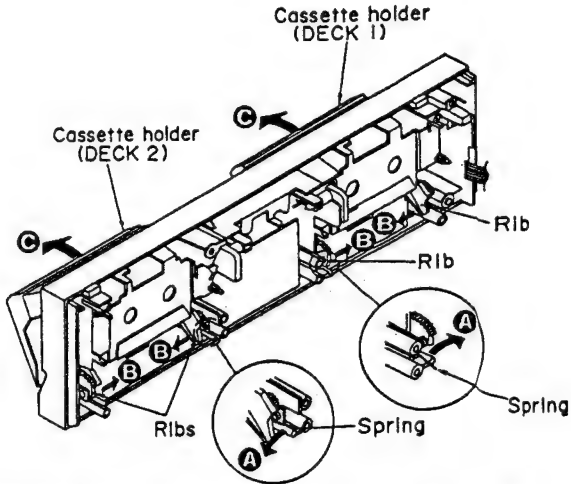
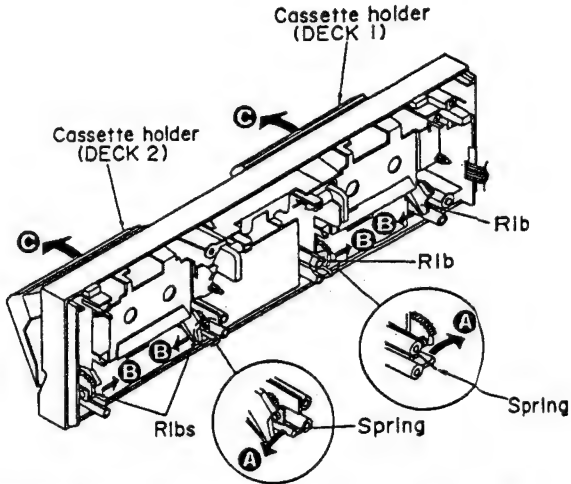
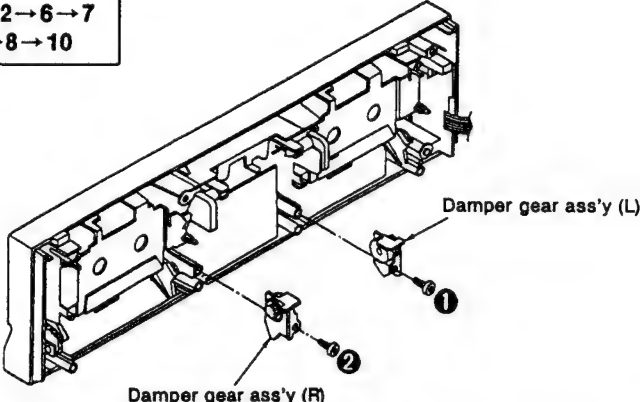
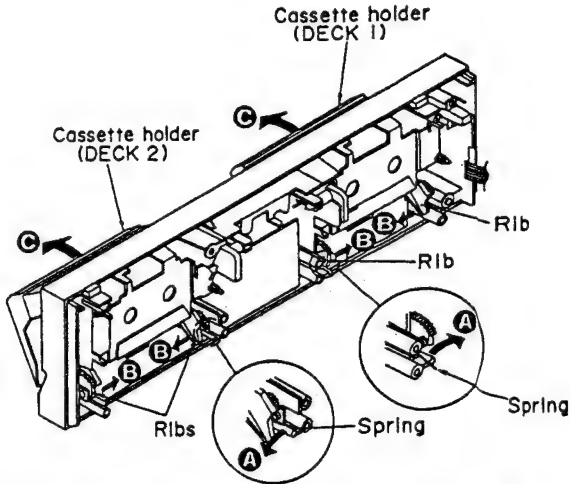
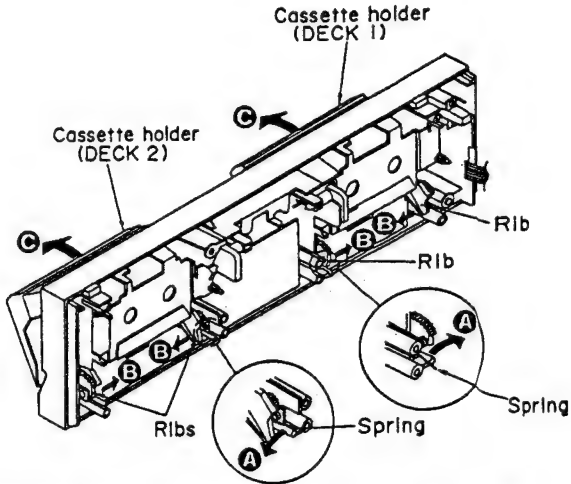
DISASSEMBLY INSTRUCTIONS

"ATTENTION SERVICER"

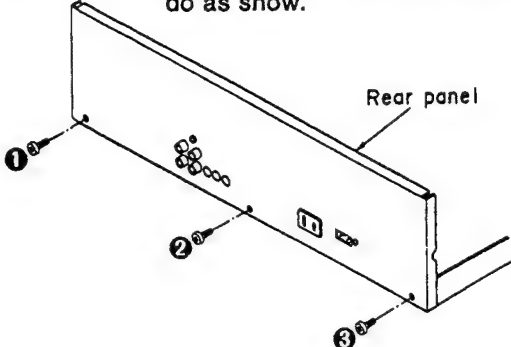
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

Ref. No. 1	Removal of the Cabinet	Ref. No. 2	Removal of the Front Panel Ass'y
Procedure 1	 <p>• Remove the 6 screws (①~⑥).</p>	Procedure 1→2	 <p>1. Remove the 5 screws (①~⑤).</p>
Ref. No. 3	Removal of the Main P.C.B.		
Procedure 1→2→3	 <p>1. Remove the 6 screws (①~⑥) 2. Remove the 1 flat cable (CN2P).</p>		 <p>2. Remove the 2 connectors (CP1, CP2). 3. Remove the 5 flat cables (CN3, CN4, CN5, CN6, CN10). 4. Remove the front panel ass'y in the direction of arrow.</p> <p>How to remove the Flat Cable</p> <p>• Pull out the flat cable while pressing the connector. (CN3, CN5)</p> <p>1. Lift the connector. 2. Pull out the flat cable. (CN4, CN6, CN10)</p>  

Ref. No. 4	Removal of the Power Supply P.C.B.	Ref. No. 5	Removal of the Power Switch P.C.B.
Procedure 1→4	 <ol style="list-style-type: none"> 1. Remove the 1 flat cable (CN2). 2. Remove the 3 screws (①~③). 3. Release the 2 claws of the AC outlet cover. 	Procedure 1→2→5	 <ol style="list-style-type: none"> 1. Remove the 1 screw(①). 2. Release the 1 claw.
Ref. No. 6	Removal of the FL Meter P.C.B.	Ref. No. 7	Removal of the Mechanism Units (DECK 1, DECK 2)
Procedure 1→2→6	 <ol style="list-style-type: none"> 1. Remove the 2 screws ((①, ②). 2. Remove the FL meter P.C.B. in the direction of arrow. 	Procedure 1→2→7	<p>■ Mechanism Unit (DECK 1)</p> <ol style="list-style-type: none"> 1. Press the eject button and open the cassette holder. 2. Remove the 4 screws (①~④). <p>■ Mechanism Unit (DECK 2)</p> <ol style="list-style-type: none"> 1. Press the eject button and open the cassette holder. 2. Remove the 4 screws (⑤~⑧). 
Ref. No. 8	Removal of the Mechanism Angle		
Procedure 1→2→6→ 7→8	 <p>• Remove the 4 screws (①~④).</p>		

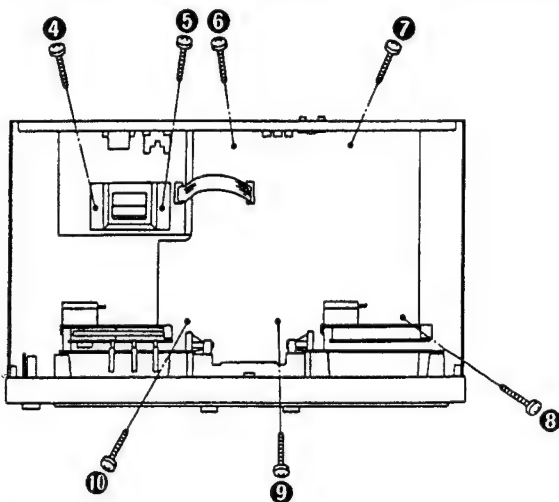
Ref. No. 9	Removal of the Eject Angle, Eject Buttons, and Eject Lever		
Procedure 1→2→6→7→9			
Procedure 1→2→6→7→8→10			
			
Ref. No. 10	Removal of the Cassette Holder (DECK 1, DECK 2)		
Procedure 1→2→6→7→8→10			
Procedure 1→2→6→7→8→10→11			
			
Ref. No. 11	Removal of the Operation (DECK 1) P.C.B. and Operation (DECK 2) P.C.B.		
Procedure 1→2→6→7→8→10→11			
Procedure 1→2→6→7→8→10→11			
			

Ref. No. 12	How to check the Main P.C.B.	
Procedure 1→12	• When checking the soldered surfaces of main P.C.B. and replacing the parts, do as show.	

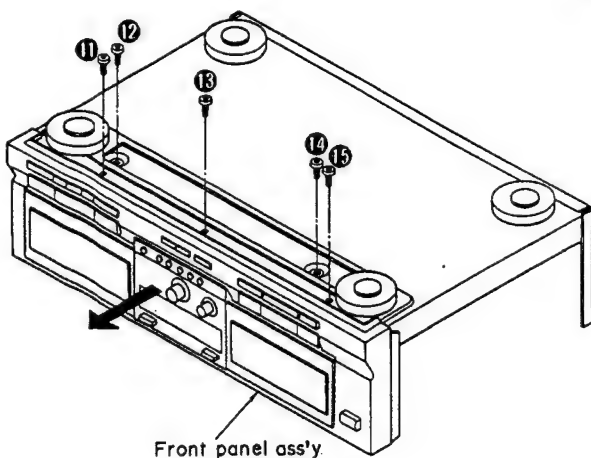


Rear panel

1. Remove the 3 screws (①～③).

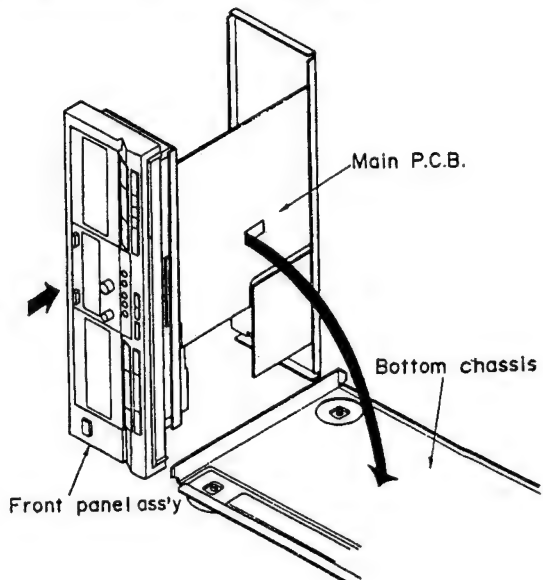


2. Remove the 7 screws (④～⑩).



Front panel ass'y

3. Remove the 5 screws (⑪～⑮).



Main P.C.B.

Bottom chassis

Front panel ass'y

4. Remove the front panel ass'y in the direction of arrow.

5. Remove the bottom chassis.

6. Reinstall the front panel to the main P.C.B.

MEASUREMENTS AND ADJUSTMENTS

Measurement Condition

- Recording-level control; Maximum
- Recording-balance control; Center
- Reverse-mode selector switch; \rightleftharpoons
- Tape-to-tape recording-speed selector; X1 SPEED
- Dolby NR switch; Off

- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature $20 \pm 5^{\circ}\text{C}$ ($68 \pm 9^{\circ}\text{F}$)

Measuring instrument

- EVM (Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter

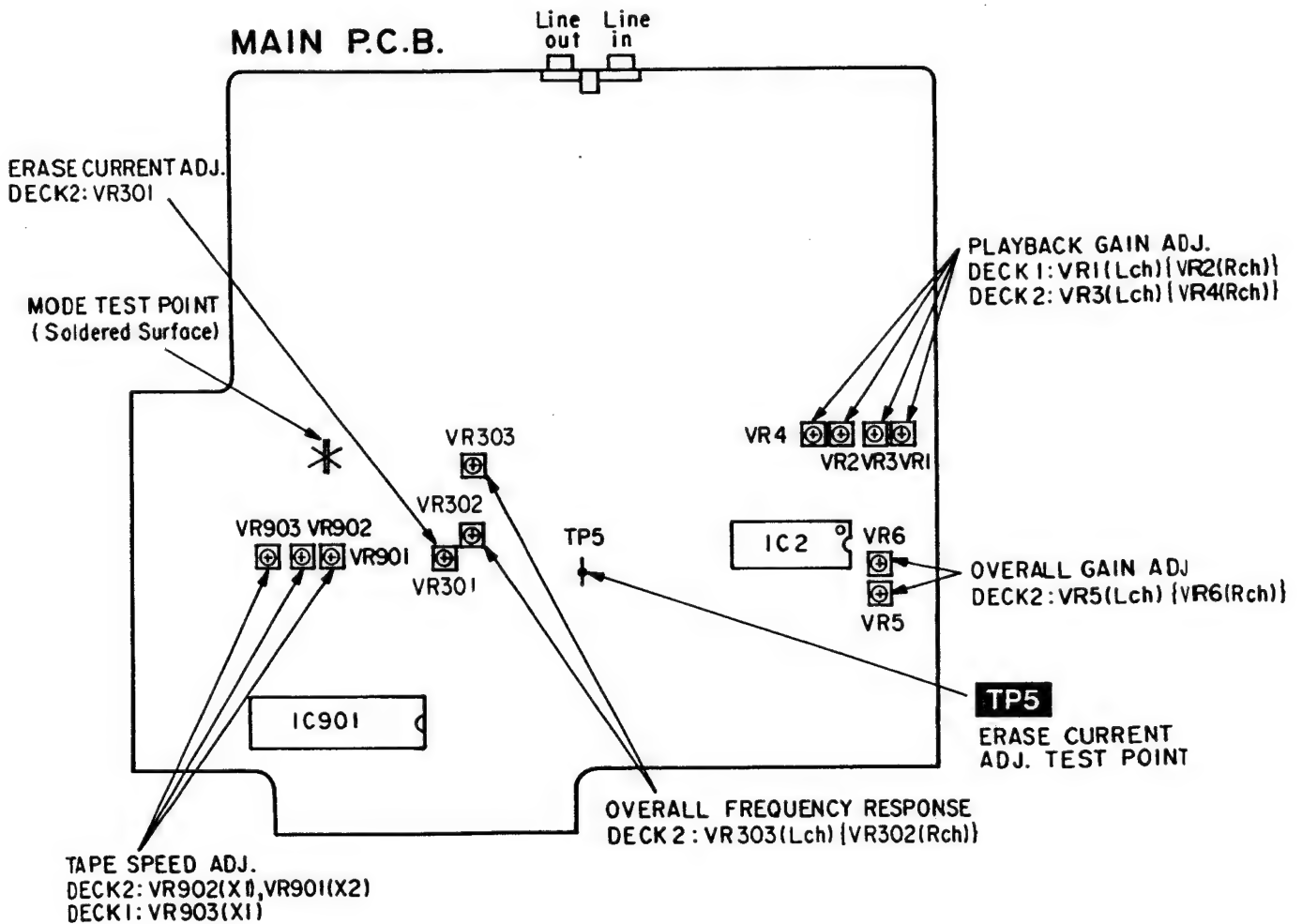
- AF oscillator
- ATT (Attenuator)
- Resistor (600Ω)

Test tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Playback gain adjustment (315Hz, 0dB); QZZCFM
- Playback frequency response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250Hz, 125Hz, 63Hz, -20dB); QZZCFM

- Overall frequency response, Overall gain adjustment, Erase current adjustment
Normal reference blank tape; QZZCRV2
CrO₂ reference blank tape; QZZCRX1
Metal reference blank tape; QZZCRZ5

Adjustment Points



HEAD AZIMUTH ADJUSTMENT (DECK 1/2)

Caution:

- Please replace both azimuth adjustment screws (RHE5152ZB) and springs (RMB0331) used for to new ones simultaneously when readjusting the head azimuth. (Shown in Fig. 2.) Even if you wish to readjust the head azimuth without replacing the screws and springs, a fine adjustment can not be done because of the screw-locking bond adhered to the azimuth screw and spring.
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- If you wish to readjust the head azimuth, be sure to adjust with adhering the cassette tape closely to the mechanism by pushing the center of cassette tape with your finger. (Shown in Fig. 3.)

1. Playback the azimuth adjustment portion (8kHz, -20dB) of the test tape (QZZCFM) in the forward play mode. Vary the azimuth adjusting screw until the output of the R-CH are maximized.
2. Perform the same adjustment in the reverse play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

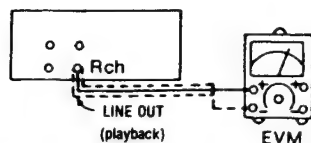


Fig. 1

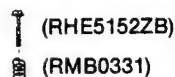


Fig. 2

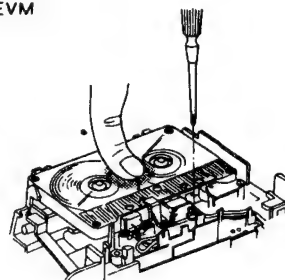


Fig. 3

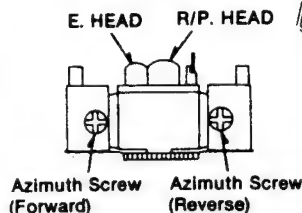


Fig. 4

TAPE SPEED ADJUSTMENT (DECK 1/2)

Normal speed (Standard value: 3000 ± 45 Hz)

1. Playback the middle portion of the test tape (QZZCWAT).
2. Adjust Deck 1=VR903 and Deck 2=VR902 for the output value shown below.

Adjustment target: 3000 ± 15 Hz (NORMAL speed)
Standard value: 3000 ± 45 Hz (NORMAL speed)

High speed [Set the unit to forward (FWD) mode.]

3. Short-circuit the TEST jumper ("DECK 1" or "DECK 2" indicator blinks).
4. Playback the middle portion on the test tape (QZZCWAT).
5. Press the one touch tape edit (High) button. This will set the high speed mode.
6. At that time, check if the output from DECK 1 is within the standard value.

Standard value: 6000 ± 600 Hz (HIGH speed)

7. Adjust VR901 so that the output frequency of DECK 2 is within ± 30 Hz for the value of the output frequency of DECK 1.

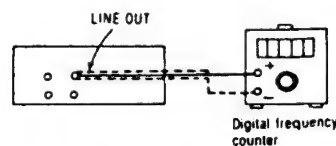


Fig. 5

PLAYBACK GAIN ADJUSTMENT (DECK 1/2)

1. Playback the gain adjusted portion (315Hz, 0dB) of the test tape (QZZCFM).
2. Adjust Deck 1=VR1 (L-CH) [[VR2 (R-CH)]] and Deck 2=VR3 (L-CH) [[VR4 (R-CH)]] so that the output is within the standard value.

Standard value: $0.4 \text{ V} \pm 0.5 \text{ dB}$

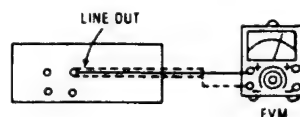


Fig. 6

PLAYBACK FREQUENCY RESPONSE (DECK 1/2)

1. Playback the frequency response portion (315Hz, 12.5 kHz~63Hz, -20dB) of the test tape (QZZCFM).
2. Assure that the frequency response is within the range shown in Fig. 8 for both L-CH and R-CH.

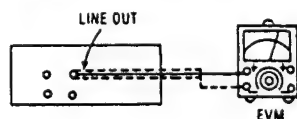


Fig. 7

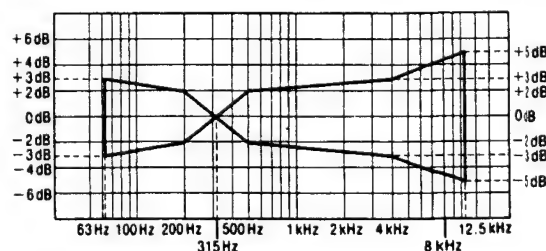


Fig. 8

ERASE CURRENT ADJUSTMENT (DECK 2)

1. Insert the Metal blank test tape (QZZCRZ5) and set the unit to the Record Pause mode.
2. Adjust VR301 so that the output between TP5 and GND is within the standard value.

Standard value: 190 ± 5 mA (Metal)...EVM Reading: 190 ± 5 mV

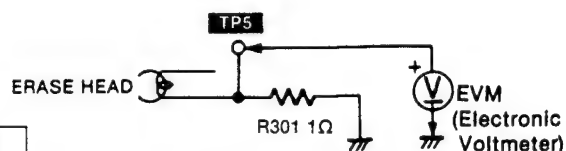


Fig. 9

OVERALL FREQUENCY RESPONSE (DECK 2)

1. Insert the Normal blank test tape (QZZCRV2) and set the unit to the Record Pause mode.
2. Apply a reference input signal (1kHz, -24dB) through an attenuator.
3. Attenuate the signal by 20dB and adjust the frequency from 50Hz~10kHz.
4. Record the frequency sweep.
5. Playback the recorded signal and assure that it is within the range shown in Fig. 10 in comparison to the reference frequency (1 kHz).
6. If it is not within the standard range, adjust VR303 (L-CH) and VR302 (R-CH) so that the frequency level is within the standard range.
 - Level up in high frequency range.....
Increase the bias current.
 - Level down in high frequency range.....
Decrease the bias current.
7. Repeat steps 2~6 above using the CrO₂ tape (QZZCRX1) and the Metal tape (QZZCRZ5) increasing the frequency range to 12.5kHz (50Hz~12.5kHz).
8. Assure that the level is within the range shown in Fig. 11.

Normal Overall frequency response chart (NR OUT)

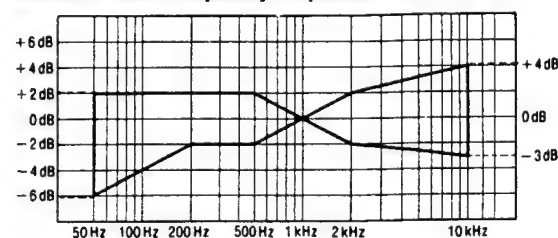


Fig. 10

CrO₂ Metal Overall frequency response chart (NR OUT)

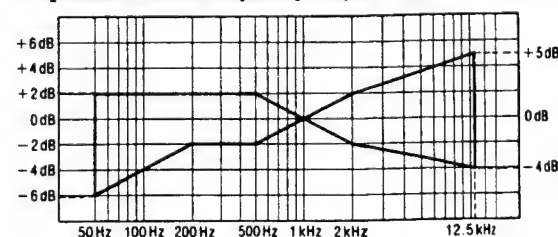


Fig. 11

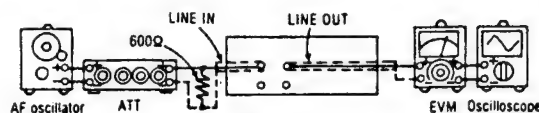


Fig. 12

OVERALL GAIN ADJUSTMENT (DECK 2)

1. Insert the Normal blank test tape (QZZCRV2) and set the unit to the Record pause mode.
2. Apply a reference input signal (1kHz, -24dB). Attenuate the output so that its level becomes 0.4V.
3. Record this input signal.
4. Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
5. If it is not within the standard value, adjust VR5 (L-CH) and VR6 (R-CH).
6. Repeat the step 2~5 above until the output is within the standard value.

Standard value: $0.4V \pm 0.5$ dB

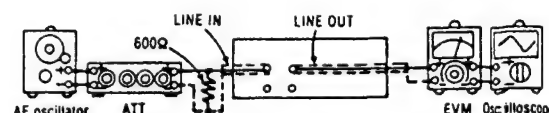


Fig. 13

■ TERMINAL FUNCTION OF IC

● IC901 (M50942-502SP): MICROCOMPUTER

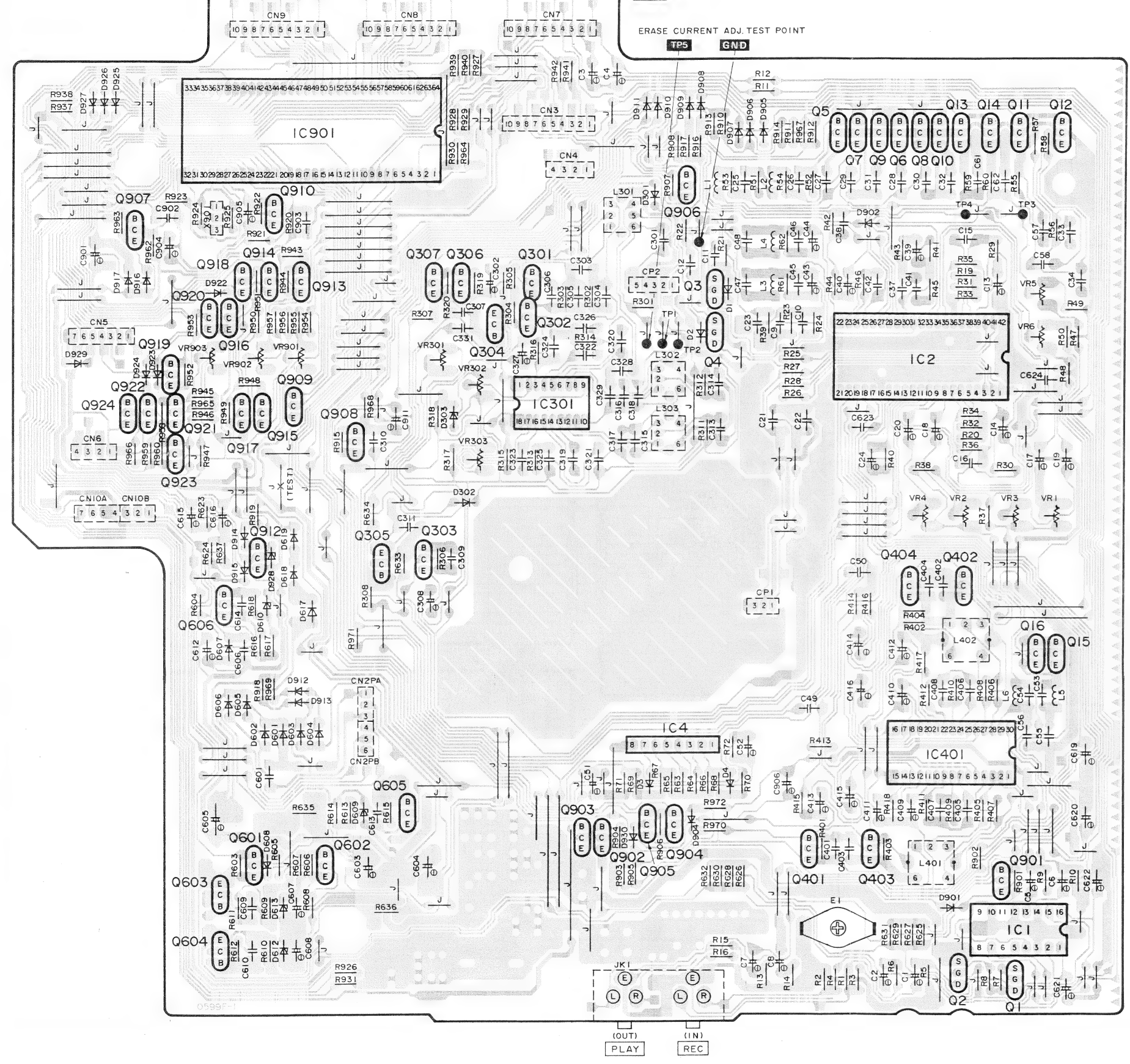
Pin No.	Mark	I/O	Description
1	V _{REF}	I	Standard voltage terminal (5 V)
2	1 WAY REV	I	Model select input terminal D1 1 Way... "L", D1 Reverse... "H"
3	INH	I	Deck 2 Forward/Reverse Rec. Inh. switch select terminal
4	QUI2	I	Connected to GND
5	QUI1		
6	R IN		
7	L IN	I	Line signal level input terminal
8	KEY 2	I	Key switch scan (DECK 1 STOP, CUE/REV., F. PLAY, REVERSE MODE, C-RES 2)
9	KEY 1	I	Key switch scan (DECK 2: STOP, CUE/REV., F. PLAY, R. PLAY, REC., PAUSE S. START, ×1, ×2, DOLBY B, C NR)
10	B̄	O	Dolby NR amp. select terminal DOLBY "B"... "L", etc.... "H"
11	C̄	O	DOLBY NR amp. select terminal DOLBY "C"... "L", etc.... "H"
12	ENC	O	Encode/Decode select terminal ● "H" level in encode mode. ● "L" level in decode mode.
13	×2	O	×2 Speed select terminal ● "×2"... "L", etc.... "H"
14	TP2	O	Deck 2 play select terminal ● "L" level with PLAY/CUE/REVIEW mode. ● "H" level with any other mode.
15	CRM	O	CUE/REV. mute terminal ● "L" level in muting is off mode. ● "H" level in muting is on mode.
16	RMT	O	Rec. amp. mute signal of deck 2 ● "L" level in mute is off mode. ● "H" level in mute is on mode.
17	DMT	O	Line out mute terminal ● "L" level in muting is off mode. ● "OPEN" when muting is on mode.
18	REC	O	Rec. mode output terminal ● "L" level in REC. mode. ● "H" level in any other mode.
19	REN	O	Rec. Enable output terminal ● "L" level in REC. mode ● "H" level in any other mode
20	SYNC	I	Synchro start signal input terminal ● "L"... Synchro start
21	REEL 2	I	Rotation pulse signal of reel table
22	REEL 1		
23	ARM	I	Auto rec. mute terminal ● "L"...key "on"
24	POF	I	Primary AC power detection terminal ● "L"...off

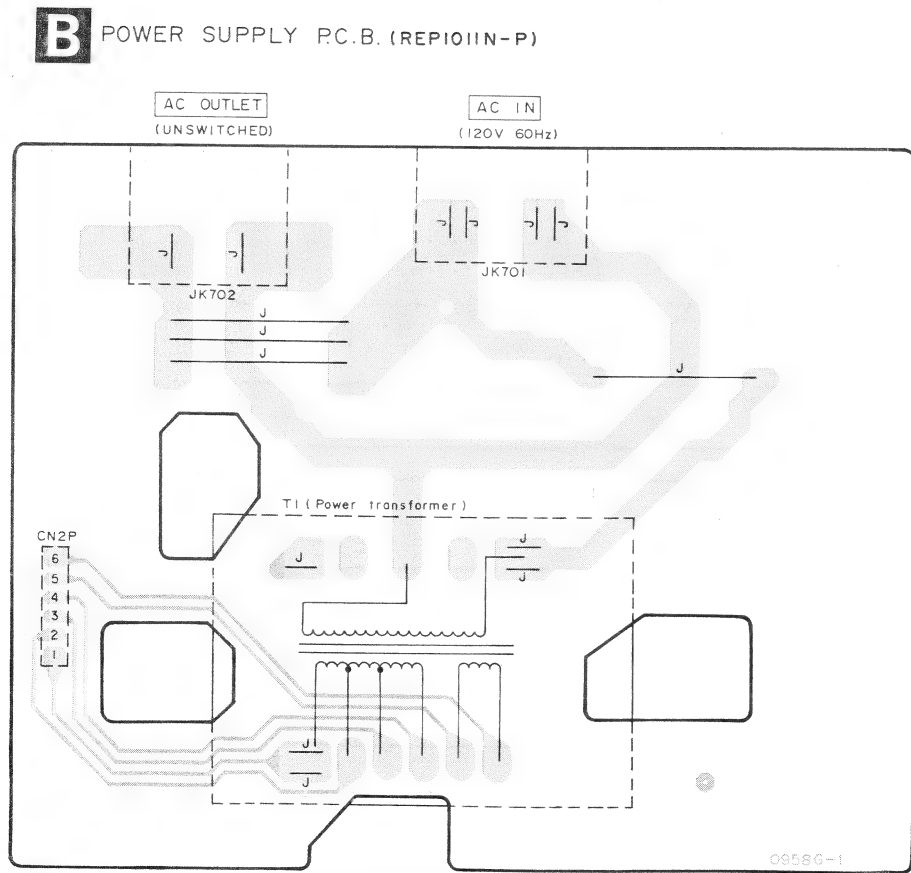
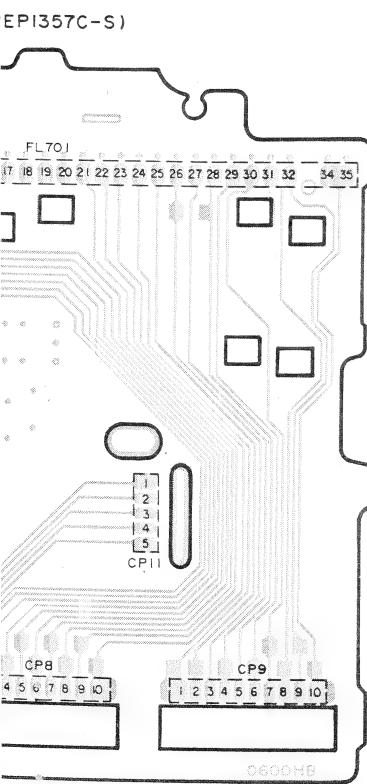
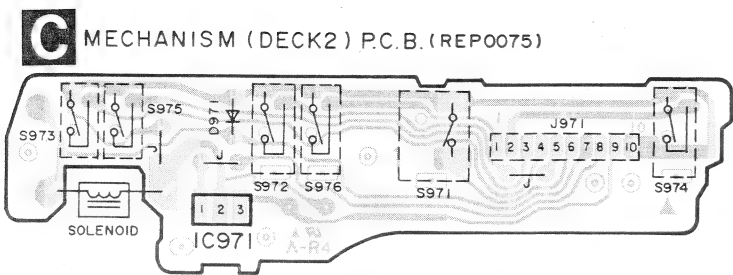
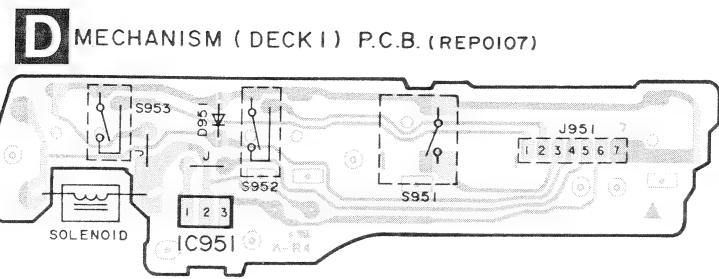
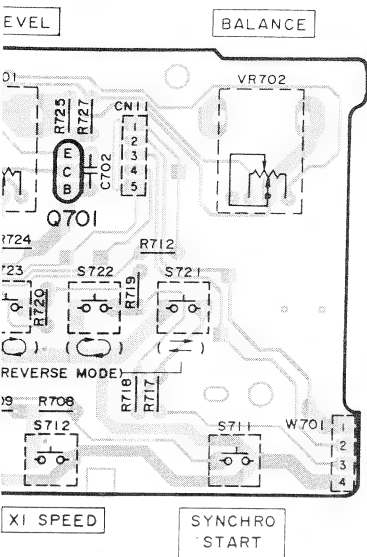
Pin No.	Mark	I/O	Description
25	R.C	I	Remote control serial data terminal
26	CN V _{ss}	I	Connected to V _{ss} .
27	RESET	I	Reset input terminal ● "L"...Reset "on"
28	X IN	I	Clock OSC terminal (4 MHz)
29	X OUT	O	
30	XC IN	I	Connected to V _{ss}
31	XC OUT	O	—
32	V _{ss}	I	Connected to GND
33	Φ	O	—
34	MODE 2	I	Deck 2 mechanism mode switch select terminal ● "L"...PLAY, CUE/REV. mode
35	HALF 2	I	Deck 2 cassette half detection switch ● "L" level in half detection switch in on mode. ● "H" level in half detection switch in off mode.
36	MODE 1	I	Deck 1 mechanism mode switch select terminal ● "L"...PLAY, CUE/REV. mode
37	HALF 1	I	Deck 1 cassette half detection switch ● "L" level in half detection switch is on mode. ● "H" level in half detection switch is off mode.
38	VP	I	Pull down power supply terminal (-V _{cc})
39	SPD 2	O	Deck 2 motor speed select terminal ● "L" level in "×2" mode ● "H" level in "×1" mode
40	CAP 2	O	Deck 2 motor ON/OFF control terminal ● "H" level in "ON"
41	SOL 2	O	Deck 2 solenoid ON/OFF control terminal ● "H" level in "ON"
42	SPD 1	O	Deck 1 motor speed select terminal ● "L" level in "×2" mode ● "H" level in "×1" mode
43	CAP 1	O	Deck 1 motor ON/OFF control terminal ● "H" level in "ON"
44	SOL 1	O	Deck 1 solenoid ON/OFF control terminal ● "H" level in "ON"
45 } 56	I } a	O	Segment signal for FL display
57 } 62	G6 } G1	O	Grid signal for FL display
63	AV _{cc}	I	Power supply terminal (A/D)
64	V _{cc}	I	Power supply terminal

PRINTED CIRCUIT BOARDS (This printed circuit boards may be modified at any time with the development of new technology)

A
B
C
D
E
F
G

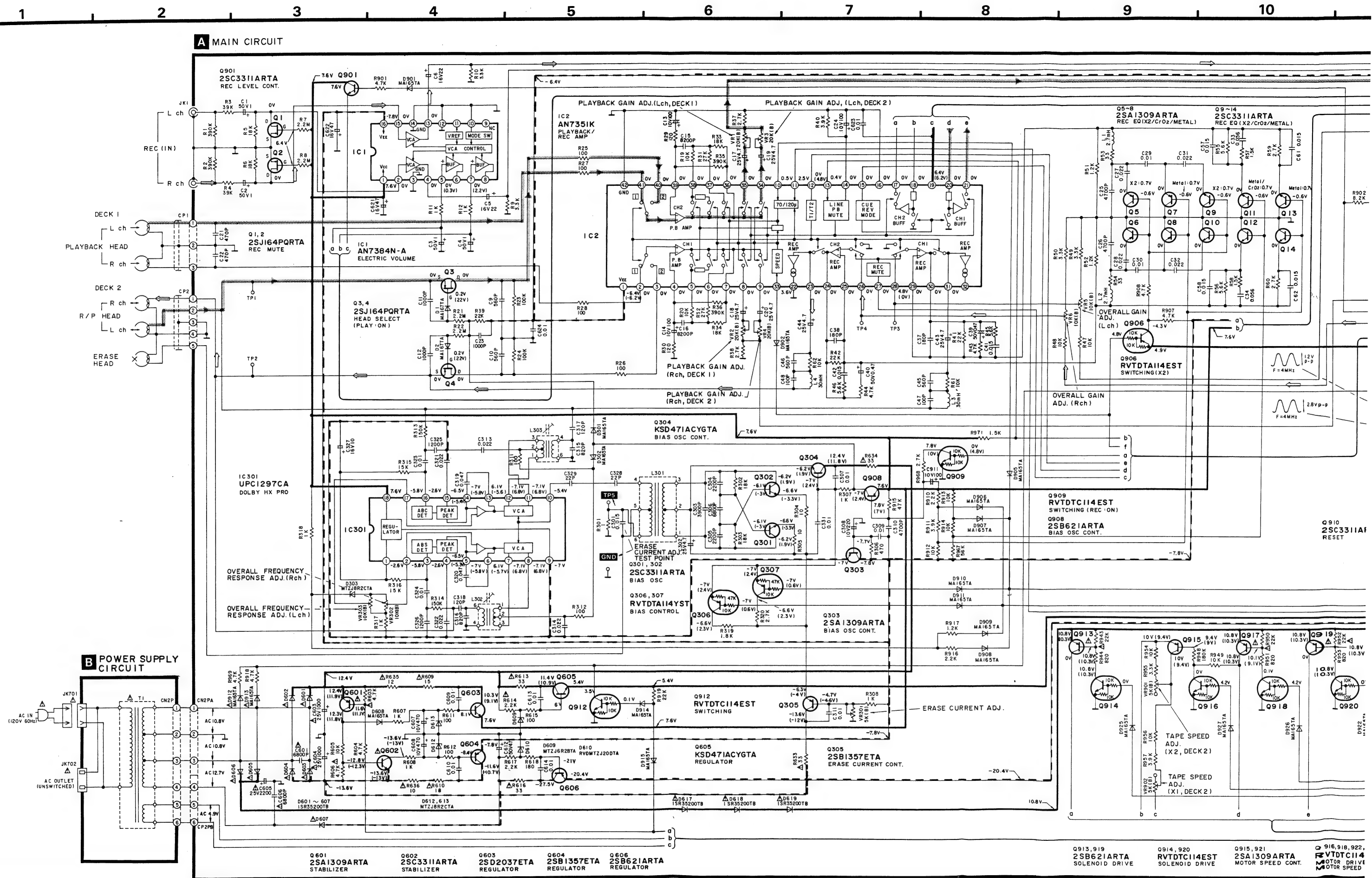
A MAIN P.C.B.(REPI356B-M)

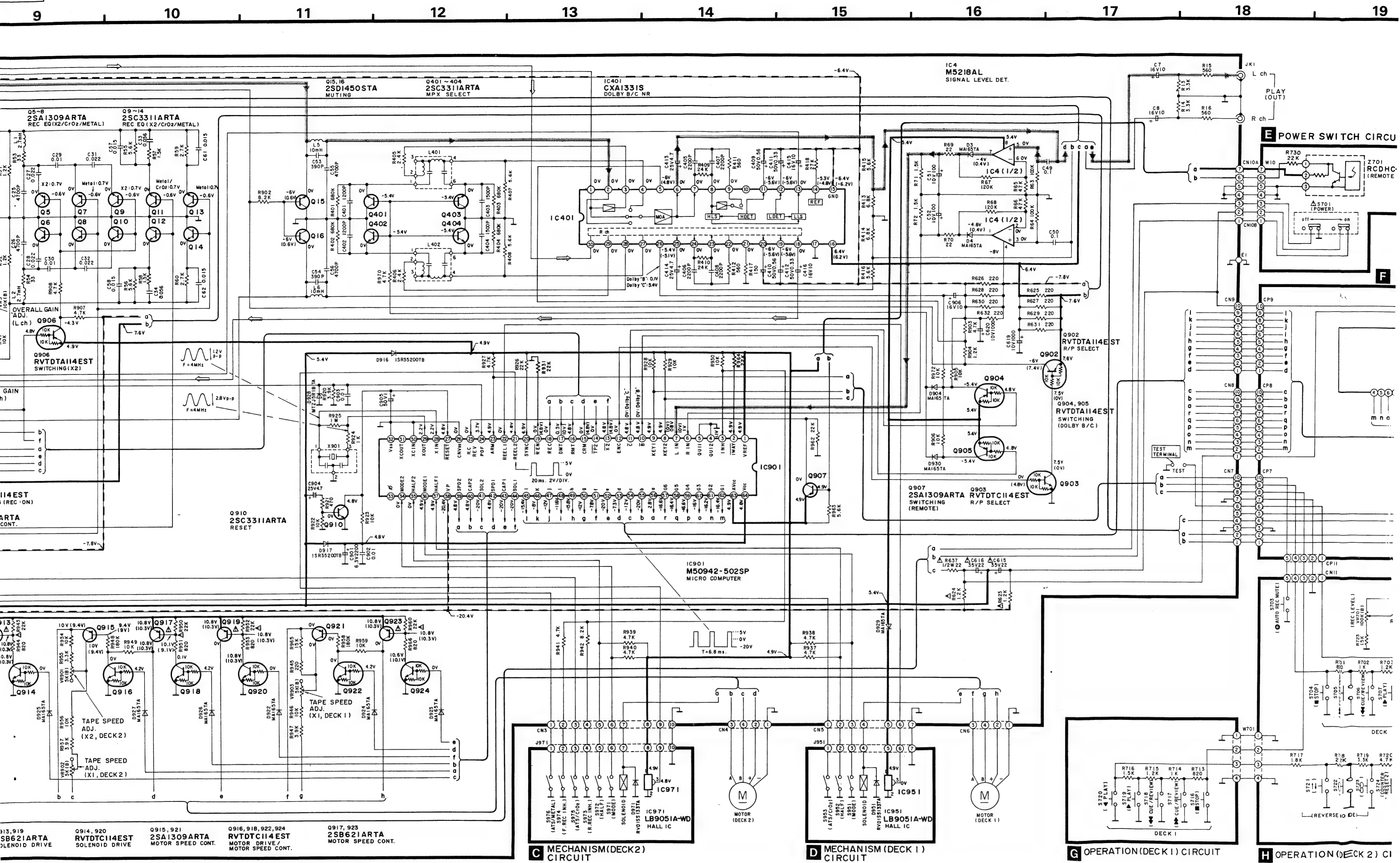


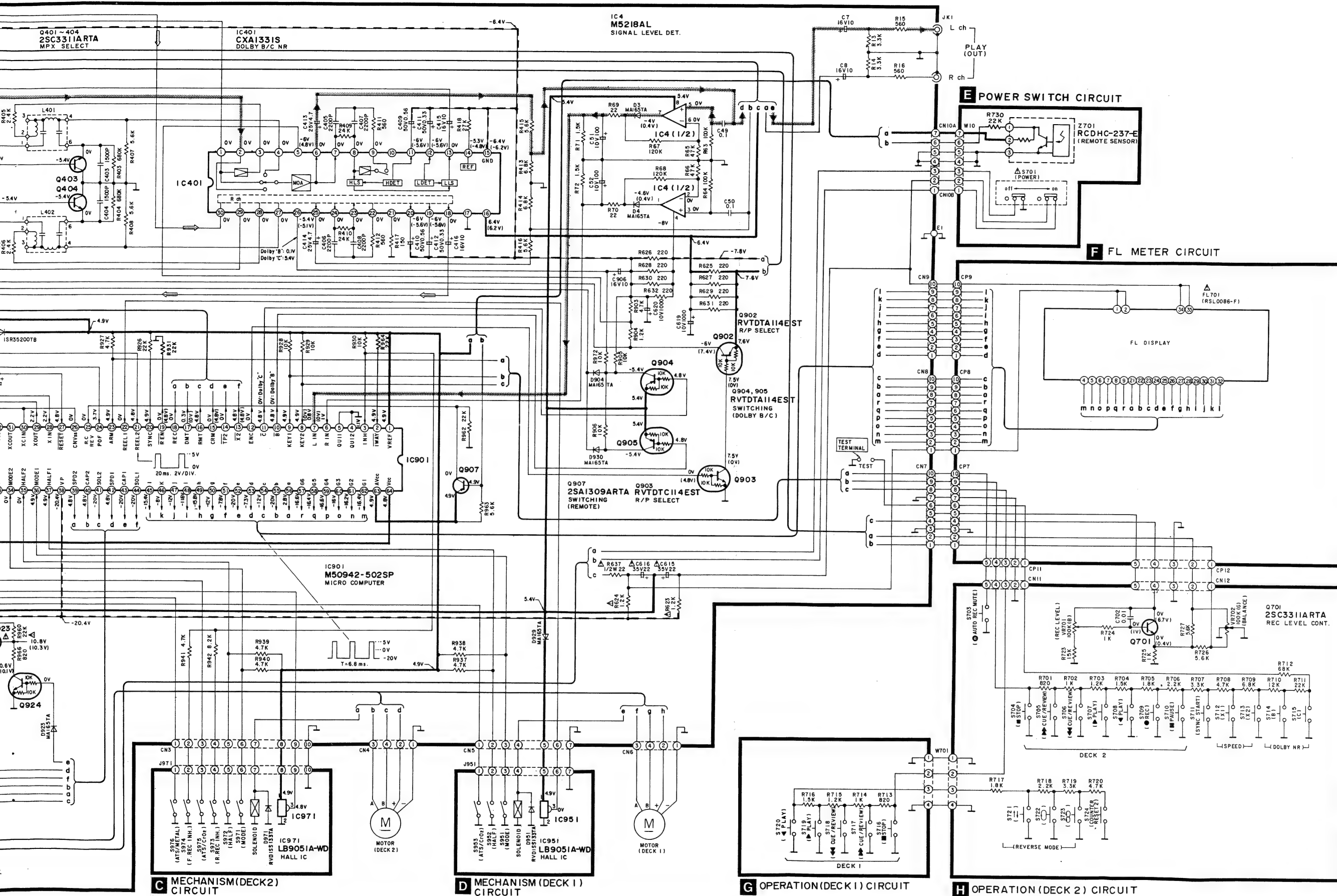


■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

	AN7384N-A	16 Pin
	UPC1297CA	18 Pin
	CXA1331S	30 Pin
	M50942-502SP	
	AN7351K	
	M5218AL	
	LB9051A-WD	
	RVTDTA114YST RVTDTA114EST RVTDTA114EST	
	2SB621ARTA KSD471ACYGTA	
	2SA1309ARTA 2SC3311ARTA 2SD1450STA	
	2SB1357ETA 2SD2037ETA	
	2SJ164PQRTA	
	MA165TA MA167TA 1SR35200TB RVD1SS133TA	
	MTZJ5R1BTA MTZJ6R2BTA MTZJ8R2CTA	
	MTZJ20DTA	







SCHEMATIC DIAGRAM (Parts list on pages 29~32.)

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

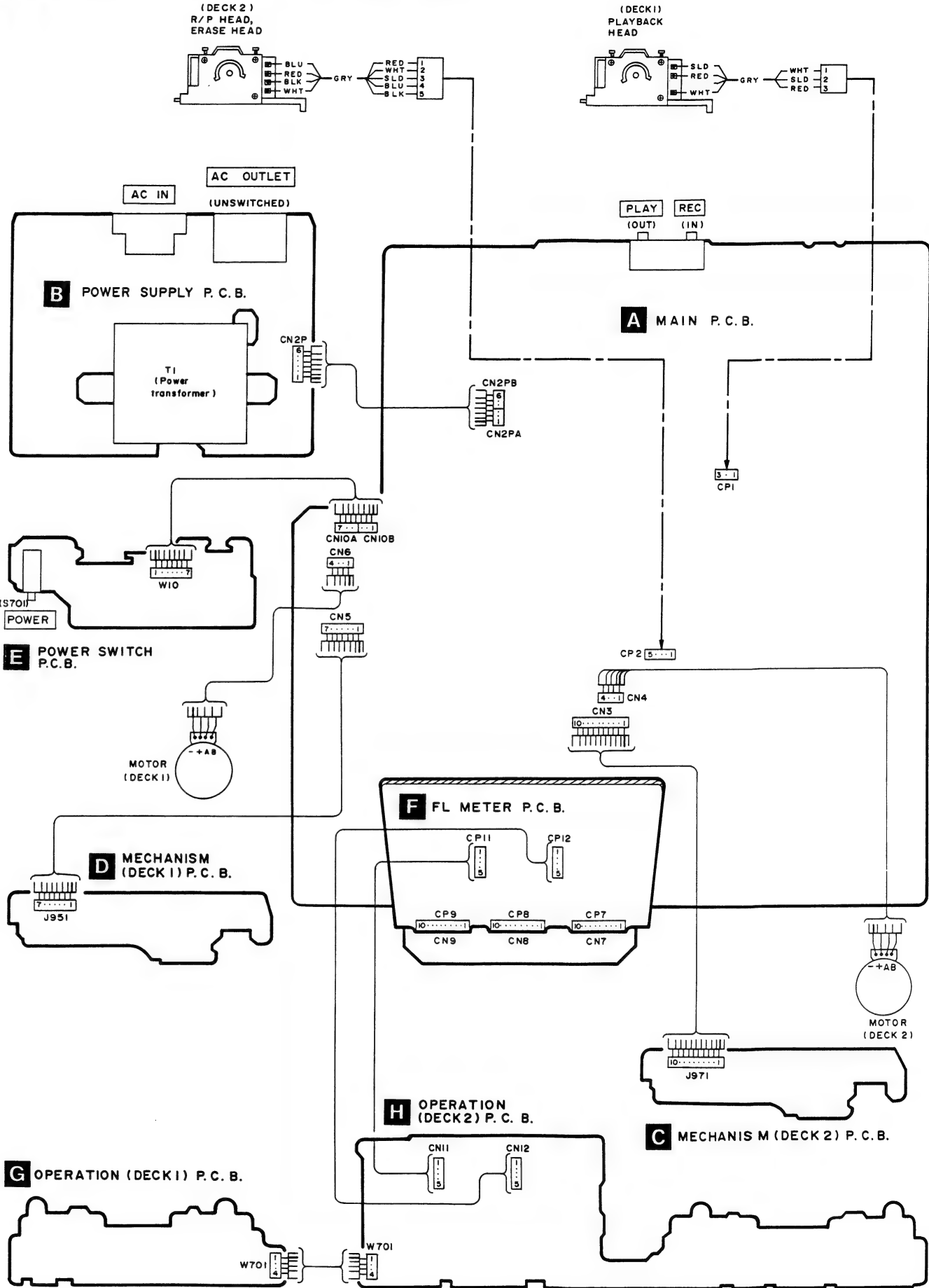
- S701 : Power switch in "on" position (POWER/ OFF ON).
- S703 : DECK 2 Automatic-record-muting switch (AUTO REC MUTE).
- S704 : DECK 2 Stop switch (STOP).
- S705 : DECK 2 Fast-forward/cue switch (CUE).
- S706 : DECK 2 Rewind/review switch (REVIEW).
- S707 : DECK 2 Forward-side playback switch (PLAY).
- S708 : DECK 2 Reverse-side playback switch (PLAY).
- S709 : DECK 2 Record switch (REC).
- S710 : DECK 2 Pause switch (PAUSE).
- S711 : Synchro-start switch (SYNCHRO START).
- S712 : Edit-recording tape-speed selector switch (X1 SPEED).
- S713 : Edit-recording tape-speed selector switch (X2 SPEED).
- S714 : Dolby noise-reduction selector switch (Dolby NR;).
- S715 : Dolby noise-reduction selector switch (Dolby NR;).
- S716 : DECK 1 Stop switch (STOP).
- S717 : DECK 1 Fast-forward/cue switch (CUE).
- S718 : DECK 1 Rewind/review switch (REVIEW).
- S719 : DECK 1 Forward-side playback switch (PLAY).
- S720 : DECK 1 Reverse-side playback switch (PLAY).
- S721 : Reverse-mode switch (REVERSE MODE;).
- S722 : Reverse-mode switch (REVERSE MODE;).
- S723 : Reverse-mode switch (REVERSE MODE;).
- S724 : DECK 2 Tape counter reset 2 switch (COUNTER RESET 2).
- S951 : DECK 1 Mode switch "off" position.
- S952 : DECK 1 Cassette half detection switch in "off" position.
- S953 : DECK 1 ATS (CrO₂) switch in "off" position.
- S971 : DECK 2 Mode switch in "off" position.
- S972 : DECK 2 Cassette half detection switch in "off" position.
- S973 : DECK 2 Reverse rec. inhibit switch in "off" position.
- S974 : DECK 2 Forward rec. inhibit switch in "off" position.
- S975 : DECK 2 ATS (CrO₂) switch in "off" position.
- S976 : DECK 2 ATS (Metal) switch in "off" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise.
1K=1,000 (Ω), 1M=1,000k (Ω)
- Capacity are in micro-farads (μF) unless specified otherwise.
- All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.
().....Voltage values at record mode.
- For measurement us EVM.
- Important safety notice
Components identified by mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
- (+B) indicates +B (bias).
- (-B) indicates -B (bias).
- () indicates the flow of the playback signal.
- () indicates the flow of the record signal.
- The supply part number is described alone in the replacement parts list.

Ref. No.	Production Part No.	Supply Part No.
IC3, 4	M5218AL	M5218L
Z701	RCDHC-237-E	RCDHC-237

*Caution!

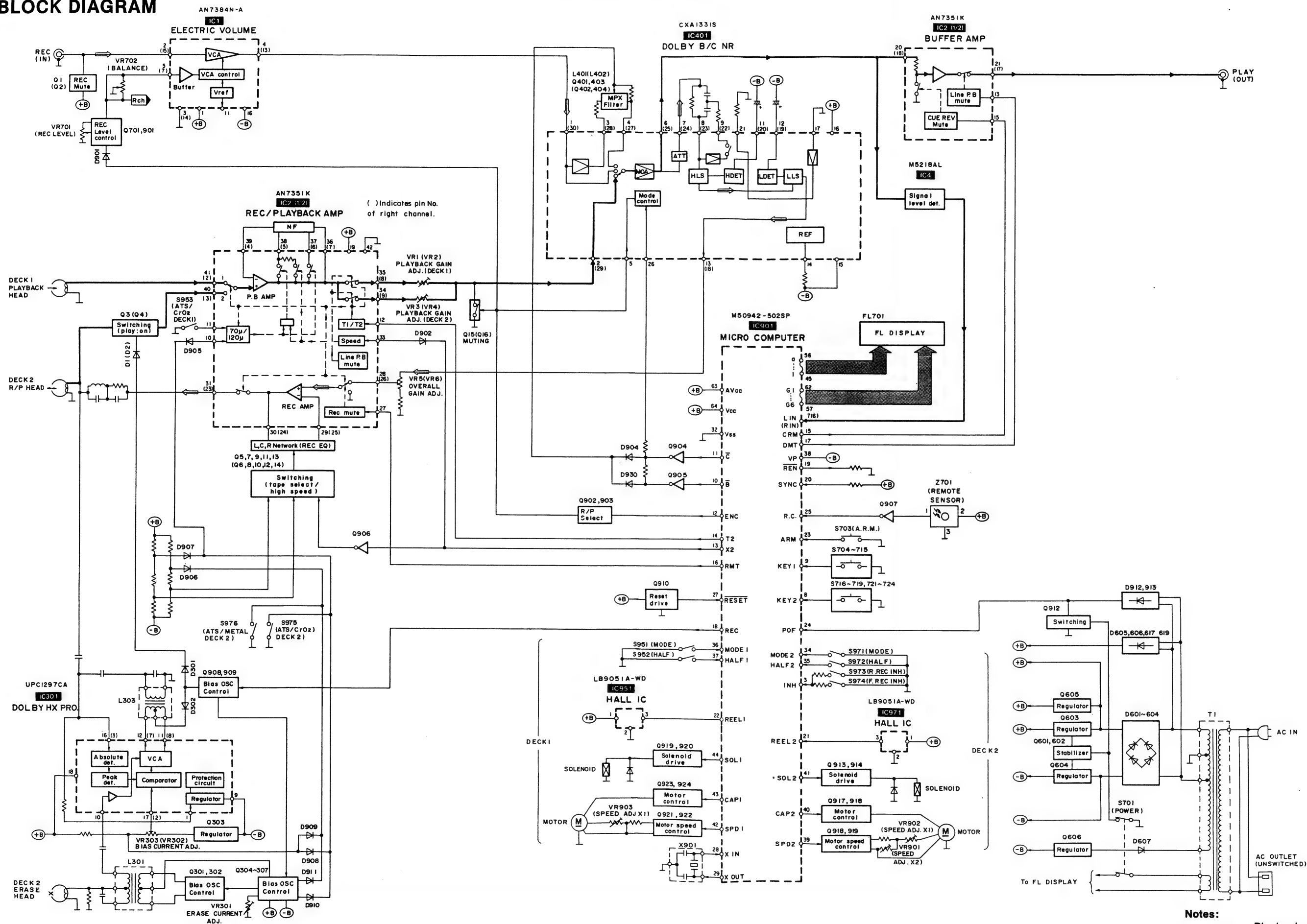
- IC and LSI are sensitive to static electricity.
- Secondary trouble can be prevented by taking care during repair.
- *Cover the parts boxes made of plastics with aluminum foil.
- *Ground the soldering iron.
- *Put a conductive mat on the work table.
- *Do not touch the legs of IC or LSI with the fingers directly.

WIRING CONNECTION DIAGRAM



BLOCK DIAGRAM

RS-TR262 RS-TR262



Notes:
 • Playback signal
 • Recording signal

REPLACEMENT PARTS LIST

Notes: *Important safety notice:

 Components identified by Δ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

* [M] indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUIT(S)		Q919	2SB621ARTA	TRANSISTOR	Δ
				Q920	RVTDT114ES	TRANSISTOR	
				Q921	2SA1309A-R	TRANSISTOR	
IC1	AN7384N-A	ELECTRIC VOLUME		Q922	RVTDT114ES	TRANSISTOR	
IC2	AN7351K	PLAYBACK/REC AMP		Q923	2SB621ARTA	TRANSISTOR	Δ
IC4	M5218L	SIGNAL LEVEL DET.		Q924	RVTDT114ES	TRANSISTOR	
IC301	UPC1297CA	DOLBY HX PRO				DIODE(S)	
IC401	CKA1331S	DOLBY B/C NR					
IC901	M50942-502SP	MICROCOMPUTER		D1, 2	MA167	DIODE	
IC951	LB9051A-WD	HALL (DECK1)		D3, 4	MA165	DIODE	
IC971	LB9051A-WD	HALL (DECK2)		D301, 302	MA165	DIODE	
		TRANSISTOR(S)		D303	MTZJ8R2CTA	DIODE	
				D601-607	1SR35200TB	DIODE	Δ
Q1-4	2SJ164PQRTA	TRANSISTOR		D608	MA165	DIODE	
Q5-8	2SA1309A-R	TRANSISTOR		D609	MTZJ6R2BTA	DIODE	
Q9-14	2SC3311AR	TRANSISTOR		D610	MTZJ20DTA	DIODE	
Q15, 16	2SD1450RTA	TRANSISTOR		D612, 613	MTZJ8R2CTA	DIODE	
Q301, 302	2SC3311AR	TRANSISTOR		D617-619	1SR35200TB	DIODE	Δ
Q303	2SA1309A-R	TRANSISTOR		D901, 902	MA165	DIODE	
Q304	KSD471ACYGTA	TRANSISTOR		D904-911	MA165	DIODE	
Q305	2SB1357ETA	TRANSISTOR	[M]	D912, 913	MA165	DIODE	Δ
Q306, 307	RVTDTA114YST	TRANSISTOR		D914, 915	MA165	DIODE	
Q401-404	2SC3311AR	TRANSISTOR		D916, 917	1SR35200TB	DIODE	
Q601	2SA1309A-R	TRANSISTOR	Δ	D922-927	MA165	DIODE	
Q602	2SC3311AR	TRANSISTOR	Δ	D928	MTZJ5R1BTA	DIODE	
Q603	2SD2037ETA	TRANSISTOR	[M]	D929, 930	MA165	DIODE	
Q604	2SB1357ETA	TRANSISTOR	[M]	D951	RVD1SS133TA	DIODE (DECK1)	
Q605	KSD471ACYGTA	TRANSISTOR		D971	RVD1SS133TA	DIODE (DECK2)	
Q606	2SB621ARTA	TRANSISTOR				VARIABLE RESISTOR(S)	
Q701	2SC3311AR	TRANSISTOR					
Q901	2SC3311AR	TRANSISTOR		VR1-4	EVNDXAA00B24	PLAYBACK GAIN ADJ.	
Q902	RVTDTA114SET	TRANSISTOR		VR5, 6	EVNDXAA00B14	OVERALL GAIN ADJ.	
Q903	RVTDT114ES	TRANSISTOR		VR301	EVNDXAA00B53	ERASE CURRENT ADJ.	
Q904-906	RVTDTA114SET	TRANSISTOR		VR302, 303	EVNDXAA00B14	OVERALL FREQ. ADJ.	
Q907	2SA1309A-R	TRANSISTOR		VR701	EVJ02FF02B15	REC LEVEL CONTROL	
Q908	2SB621ARTA	TRANSISTOR		VR702	EVJ02SF02G15	BALANCE	
Q909	RVTDT114ES	TRANSISTOR		VR901-903	EVNDXAA00B53	TAPE SPEED ADJ.	
Q910	2SC3311AR	TRANSISTOR				COIL(S)	
Q912	RVTDT114ES	TRANSISTOR					
Q913	2SB621ARTA	TRANSISTOR	Δ	L1, 2	SLQX272-1YT	COIL	
Q914	RVTDT114ES	TRANSISTOR		L3, 4	SLQX303-1KT	COIL	
Q915	2SA1309A-R	TRANSISTOR		L5, 6	RLQB103JT-Y	COIL	
Q916	RVTDT114ES	TRANSISTOR		L301	SL09B4-K	COIL	
Q917	2SB621ARTA	TRANSISTOR	Δ				
Q918	RVTDT114ES	TRANSISTOR					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
L302, 303	SL09B1-Z	COIL					
L401, 402	QLM9Z10K	COIL		CN2P	RJS6T5ZA	CONNECTOR (6P)	
		TRANSFORMER (S)		CN2PA	RJS1A6603	CONNECTOR (3P)	
				CN2PB	RJS1A6603	CONNECTOR (3P)	
				CN3	RJS10T4ZA	CONNECTOR (10P)	
T1	RTP1K4C008-V	POWER TRANSFORMER	△	CN4	RJS1A6604	CONNECTOR (4P)	
		REMOTE SENSOR(S)		CN5	RJS7T4ZA	CONNECTOR (7P)	
				CN6	RJS1A6604	CONNECTOR (4P)	
Z701	RCDHC-237	REMOTE SENSOR		CN7-9	RJU003K010M1	SOCKET (10P)	
		OSCILLATOR(S)		CN10A	RJS1A6604	CONNECTOR (4P)	
				CN10B	RJS1A6603	CONNECTOR (3P)	
X901	EFOGC4004A4	CERAMIC FILTER (4MHz)		CN11, 12	SJS50581BB	SOCKET (5P)	
		DISPLAY TUBE (S)		CP1	RJP3G18ZA	CONNECTOR (3P)	
				CP2	RJP5G18ZA	CONNECTOR (5P)	
				CP7-9	RJT003K010M1	CONNECTOR (10P)	
FL701	RSL0086-F	DISPLAY TUBE	△	CP11, 12	SJT30548BB1	CONNECTOR (5P)	
		SWITCH(ES)				JACK(S)	
				JK1	SJF3069N	TERMINAL BOARD	
S701	RSP2B012-J	POWER	[M] △	JK701	SJSD16	AC INLET	△
S703	EVQ21405R	AUTO REC MUTE (DECK2)		JK702	SJS9331B	AC OUTLET	△
S704	EVQ21405R	STOP (DECK2)				GND PART(S)	
S705	EVQ21405R	F. F. (DECK2)					
S706	EVQ21405R	REW. (DECK2)		E1	SNE1004-2	GND PLATE	
S707	EVQ21405R	F. PLAYBACK (DECK2)				FLAT CABLE (S)	
S708	EVQ21405R	R. PLAYBACK (DECK2)					
S709	EVQ21405R	REC (DECK2)					
S710	EVQ21405R	PAUSE (DECK2)		W2P	RWJ1806110QQ	FLAT CABLE (6P)	
S711	EVQ21405R	SYNCHRO START		W3	RWJ1110210QQ	FLAT CABLE (10P)	
S712	EVQ21405R	EDITING TAPE SPEED (X1)		W4	RWJ1804160QQ	FLAT CABLE (4P)	
S713	EVQ21405R	EDITING TAPE SPEED (X2)		W5	RWJ1107210QQ	FLAT CABLE (7P)	
S714	EVQ21405R	DOLBY NR B		W6	RWJ1804160QQ	FLAT CABLE (4P)	
S715	EVQ21405R	DOLBY NR C		W10	RWJ1807300KQ	FLAT CABLE (7P)	
S716	EVQ21405R	STOP (DECK1)		W701	RWJ1804047DD	FLAT CABLE (4P)	[M]
S717	EVQ21405R	F. F. (DECK1)					
S718	EVQ21405R	REW. (DECK1)					
S719	EVQ21405R	F. PLAYBACK (DECK1)					
S720	EVQ21405R	R. PLAYBACK (DECK1)					
S721-723	EVQ21405R	REVERSE MODE					
S724	EVQ21405R	COUNTER RESET2 (DECK2)					
S951	RSH1A89ZB-U	MODE (DECK1)					
S952	RSH1A90YB-U	HALF (DECK1)					
S953	RSH1A90YB-U	ATS (DECK1)					
S971	RSH1A89ZB-U	MODE (DECK2)					
S972	RSH1A90YB-U	HALF (DECK2)					
S973	RSH1A90YB-U	R. REC INH. (DECK2)					
S974	RSH1A90YB-U	F. REC INH. (DECK2)					
S975, 976	RSH1A90YB-U	ATS (DECK2)					
		CONNECTOR (S) AND SOCKET (S)					

RESISTORS AND CAPACITORS

Notes : * Capacity values are in microfarads (uF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F)
 * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM), 1M=1,000k (OHM)
 * [M] Indicates in Remarks columns parts that are supplied by MESA.

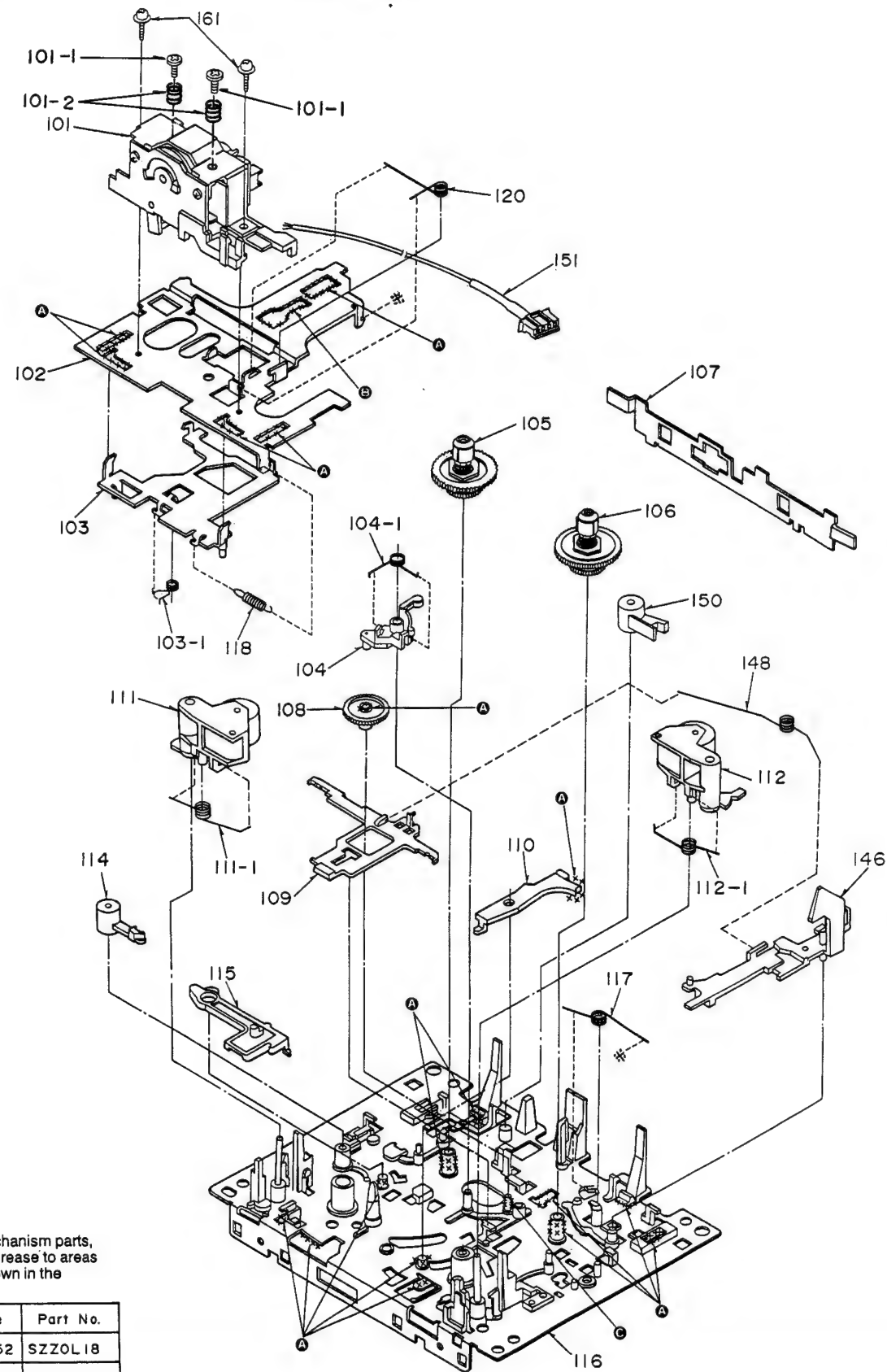
Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS						
R1, 2	ERDS2TJ394	1/4W 390K	R401-404	ERDS2TJ684	1/4W 680K	R723	ERDS2TJ153	1/4W 15K
R3, 4	ERDS2TJ393	1/4W 39K	R405, 406	ERDS2TJ242	1/4W 2.4K	R724, 725	ERDS2TJ102	1/4W 1K
R5, 6	ERDS2TJ183T	1/4W 18K	R407, 408	ERDS2TJ562	1/4W 5.6K	R726, 727	ERDS2TJ562	1/4W 5.6K
R7, 8	ERDS2TJ225	1/4W 2.2M	R409, 410	ERDS2TJ243T	1/4W 24K	R730	ERDS2TJ223	1/4W 22K
R9, 10	ERDS2TJ332	1/4W 3.3K	R411, 412	ERDS2TJ561	1/4W 560	R901	ERDS2TJ472	1/4W 4.7K
R11, 12	ERDS2TJ102	1/4W 1K	R413, 414	ERDS2TJ682T	1/4W 6.8K	R902	ERDS2TJ822	1/4W 8.2K
R13, 14	ERDS2TJ332	1/4W 3.3K	R415, 416	ERDS2TJ562	1/4W 5.6K	R903	ERDS2TJ472	1/4W 4.7K
R15, 16	ERDS2TJ561	1/4W 560	R417	ERDS2TJ151	1/4W 150	R904	ERDS2TJ122	1/4W 1.2K
R19, 20	ERDS2TJ103	1/4W 10K	R418	ERDS2TJ273	1/4W 27K	R905, 906	ERDS2TJ103	1/4W 10K
R21, 22	ERDS2TJ225	1/4W 2.2M	R603	ERDS2TJ472	1/4W 4.7K Δ	R907, 908	ERDS2TJ472	1/4W 4.7K
R23, 24	ERDS2TJ104	1/4W 100K	R604	ERDS2TJ472	1/4W 4.7K	R910	ERDS2TJ222	1/4W 2.2K
R25-28	ERDS2TJ101	1/4W 100	R605	ERDS2TJ103	1/4W 10K	R911	ERDS2TJ392T	1/4W 3.9K
R29, 30	ERDS2EJ121	1/4W 120	R606	ERDS2TJ472	1/4W 4.7K Δ	R912-914	ERDS2TJ103	1/4W 10K
R31, 32	ERDS2TJ273	1/4W 27K	R607, 608	ERDS2TJ102	1/4W 1K	R915	ERDS2TJ473	1/4W 47K
R33, 34	ERDS2TJ183T	1/4W 18K	R609	ERD2FCVG150T	1/4W 15 Δ	R916	ERDS2TJ222	1/4W 2.2K
R35, 36	ERDS2TJ394	1/4W 390K	R610	ERD2FCVG180T	1/4W 18 Δ	R917	ERDS2TJ122	1/4W 1.2K
R37, 38	ERDS2TJ272T	1/4W 2.7K	R611, 612	ERDS2TJ101	1/4W 100	R918	ERDS2TJ472	1/4W 4.7K
R39	ERDS2TJ223	1/4W 22K	R613	ERD2FCVG330T	1/4W 33 Δ	R919	ERDS2TJ223	1/4W 22K
R40	ERDS2TJ392T	1/4W 3.9K	R614	ERDS2TJ222	1/4W 2.2K Δ	R920	ERDS2TJ392T	1/4W 3.9K
R41, 42	ERDS2TJ223	1/4W 22K	R615	ERDS2TJ101	1/4W 100	R921	ERDS2TJ471	1/4W 470
R43, 44	ERDS2TJ472	1/4W 4.7K	R616	ERD2FCVG330T	1/4W 33 Δ	R922, 923	ERDS2TJ103	1/4W 10K
R45, 46	ERDS2TJ562	1/4W 5.6K	R617	ERDS2TJ222	1/4W 2.2K	R924	ERDS2TJ102	1/4W 1K
R47, 48	ERDS2TJ103	1/4W 10K	R618	ERDS2TJ181T	1/4W 180	R925	ERDS2TJ105T	1/4W 1M
R49, 50	ERDS2TJ332	1/4W 3.3K	R623, 624	ERDS2TJ122	1/4W 1.2K Δ	R926	ERDS2TJ223	1/4W 22K
R51, 52	ERDS2TJ122	1/4W 1.2K	R625-632	ERDS2TJ221	1/4W 220	R927	ERDS2TJ472	1/4W 4.7K
R53, 54	ERDS2TJ330	1/4W 33	R633, 634	ERD2FCVG330T	1/4W 33 Δ	R928-930	ERDS2TJ103	1/4W 10K
R55, 56	ERDS2TJ562	1/4W 5.6K	R635	ERDS2TJ120T	1/4W 12 Δ	R931	ERDS2TJ223	1/4W 22K
R57, 58	ERDS2TJ152	1/4W 1.5K	R636	ERDS2TJ100	1/4W 10 Δ	R937-941	ERDS2TJ472	1/4W 4.7K
R59, 60	ERDS2TJ272T	1/4W 2.7K	R637	ERDS1FVJ220T	1/2W 22 Δ	R942	ERDS2TJ822	1/4W 8.2K
R61, 62	ERDS2TJ103	1/4W 10K	R701	ERDS2TJ821	1/4W 820	R943	ERDS2TJ223	1/4W 22K Δ
R63, 64	ERDS2TJ104	1/4W 100K	R702	ERDS2TJ102	1/4W 1K	R944	ERDS2TJ821	1/4W 820
R65, 66	ERDS2TJ473	1/4W 47K	R703	ERDS2TJ122	1/4W 1.2K	R945	ERDS2TJ221	1/4W 220
R67, 68	ERDS2TJ124T	1/4W 120K	R704	ERDS2TJ152	1/4W 1.5K	R946	ERDS2TJ103	1/4W 10K
R69, 70	ERDS2TJ220T	1/4W 22	R705	ERDS2TJ182	1/4W 1.8K	R947	ERDS2TJ392T	1/4W 3.9K
R71, 72	ERDS2TJ152	1/4W 1.5K	R706	ERDS2TJ222	1/4W 2.2K	R948	ERDS2TJ184T	1/4W 180K
R301	ERDS2TJ1R0	1/4W 1.0	R707	ERDS2TJ332	1/4W 3.3K	R949	ERDS2TJ103	1/4W 10K
R302, 303	ERDS2TJ183T	1/4W 18K	R708	ERDS2TJ472	1/4W 4.7K	R950	ERDS2TJ223	1/4W 22K Δ
R304, 305	ERDS2TJ100	1/4W 10	R709	ERDS2TJ682T	1/4W 6.8K	R951	ERDS2TJ821	1/4W 820
R306	ERDS2TJ471	1/4W 470	R710	ERDS2TJ123	1/4W 12K	R952	ERDS2TJ223	1/4W 22K Δ
R307, 308	ERDS2TJ102	1/4W 1K	R711	ERDS2TJ223	1/4W 22K	R953	ERDS2TJ821	1/4W 820
R311, 312	ERDS2TJ101	1/4W 100	R712	ERDS2TJ683	1/4W 68K	R954	ERDS2TJ103	1/4W 10K
R313, 314	ERDS2TJ154	1/4W 150K	R713	ERDS2TJ821	1/4W 820	R955	ERDS2TJ332	1/4W 3.3K
R315, 316	ERDS2TJ153	1/4W 15K	R714	ERDS2TJ102	1/4W 1K	R956	ERDS2TJ103	1/4W 10K
R317, 318	ERDS2TJ102	1/4W 1K	R715	ERDS2TJ122	1/4W 1.2K	R957	ERDS2TJ392T	1/4W 3.9K
R319	ERDS2TJ182	1/4W 1.8K	R716	ERDS2TJ152	1/4W 1.5K	R958	ERDS2TJ184T	1/4W 180K
R320	ERDS2TJ272T	1/4W 2.7K	R717	ERDS2TJ182	1/4W 1.8K	R959	ERDS2TJ103	1/4W 10K
			R718	ERDS2TJ222	1/4W 2.2K	R960	ERDS2TJ223	1/4W 22K Δ
			R719	ERDS2TJ332	1/4W 3.3K	R962	ERDS2TJ223	1/4W 22K
			R720	ERDS2TJ472	1/4W 4.7K	R963	ERDS2TJ562	1/4W 5.6K

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R964	ERDS2TJ223	1/4W 22K	C319, 320	ECQV1H473JZ3	50V 0.047U
R965	ERDS2TJ153	1/4W 15K	C321, 322	ECQB1H223JF3	50V 0.022U
R966	ERDS2TJ821	1/4W 820	C323, 324	ECQB1H103JF3	50V 0.01U
R967	ERDS2TJ563	1/4W 56K	C325, 326	ECKT1H122KB	50V 1200P
R968	ERDS2TJ272T	1/4W 2.7K	C327	ECEA1CKA100B	16V 10U
R969, 970	ERDS2TJ472	1/4W 4.7K	C328, 329	ECCR1H220JC5	50V 22P
R971	ERDS2TJ152	1/4W 1.5K	C331	ECKR1H103ZF5	50V 0.01U
R972	ERDS2TJ103	1/4W 10K	C401, 402	ECKT1H122KB	50V 1200P
			C403, 404	ECKD1H152KB	50V 1500P
		CAPACITORS	C405-408	ECQB1H222JF3	50V 2200P
			C409, 410	ECEA1HUR56B	50V 0.56U
C1-4	ECEA1HKA010B	50V 1U	C411, 412	ECEA1HKA33B	50V 0.33U
C5, 6	ECEA1CKA220B	16V 22U	C413, 414	ECEA1EKA4R7B	25V 4.7U
C7, 8	ECEA1CKA100B	16V 10U	C415, 416	ECEA1CKA100B	16V 10U
C9, 10	ECBT1H561KB5	50V 560P	C601	ECKR2H682PE	500V 6800P Δ
C11, 12	ECBT1H102KB5	50V 1000P	C603, 604	ECA1EM102B	25V 1000U Δ
C13, 14	ECEA1AU101	10V 100U	C605	ECA1EU222EV	25V 2200U Δ
C15, 16	ECQB1H822JF3	50V 8200P	C606	ECKR2H682PE	500V 6800P Δ
C17-20	ECEA1EKA4R7B	25V 4.7U	C607, 608	ECA1AM471B	10V 470U
C21, 22	ECBT1H471KB5	50V 470P	C609, 610	ECKR1H103ZF5	50V 0.01U
C23	ECBT1H102KB5	50V 1000P	C612	ECA1HM470B	50V 47U
C24	ECEA1AU101	10V 100U	C613, 614	ECKR1H103ZF5	50V 0.01U
C25, 26	ECQB1H472JF3	50V 4700P	C615, 616	ECEA1VU220	35V 22U Δ
C27, 28	ECQB1H223JF3	50V 0.022U	C619, 620	ECA1AM102B	10V 1000U
C29, 30	ECQB1H103JF3	50V 0.01U	C621, 622	ECEA1CKA470B	16V 47U
C31, 32	ECQB1H223JF3	50V 0.022U	C623, 624	ECBT1E103ZF	25V 0.01U
C33, 34	ECQV1H563JZ3	50V 0.056U	C702	ECBT1E103ZF	25V 0.01U
C37, 38	ECBT1H181KB5	50V 180P	C901	ECA0JM222B	6.3V 2200U
C39, 40	ECEA1HKA4R7B	50V 0.47U	C902, 903	ECKR1H103ZF5	50V 0.01U
C41, 42	ECQB1H153JF3	50V 0.015U	C904	ECEA1EKA4R7B	25V 4.7U
C43, 44	ECEA1EKA4R7B	25V 4.7U	C905	ECEA1HKA010B	50V 1U
C45, 46	ECBT1H561KB5	50V 560P	C906	ECEA1CKA100B	16V 10U
C47, 48	ECKR2H101KB5	500V 100P	C911	ECEA1AU101	10V 100U
C49, 50	ECQV1H104JZ3	50V 0.1U			
C51, 52	ECEA1AU101	10V 100U			
C53, 54	ECBT1H391KB5	50V 390P			
C55, 56	ECBT1C472KR5	16V 4700P			
C57, 58	ECQB1H153JF3	50V 0.015U			
C61, 62	ECQB1H153JF3	50V 0.015U			
C301	ECQP2A153JZT	100V 0.015U			
C302	ECEA1EKA4R7B	25V 4.7U			
C303	ECKR1H392KB5	50V 3900P			
C304, 305	ECKW1H222KB5	50V 2200P			
C306	ECKD1H682KB	50V 6800P			
C307	ECKR1H103ZF5	50V 0.01U			
C308	ECEA1AU221	10V 220U			
C309	ECKR1H103ZF5	50V 0.01U			
C310	ECKR1H472KB5	50V 4700P			
C311	ECKR1H103ZF5	50V 0.01U			
C313, 314	ECKT1H223ZF	50V 0.022U			
C315, 316	ECKR2H821KB5	500V 820P			
C317, 318	ECBT1H121KB5	50V 120P			

EXPLODED VIEWS

- Mechanical parts
- DECK 1

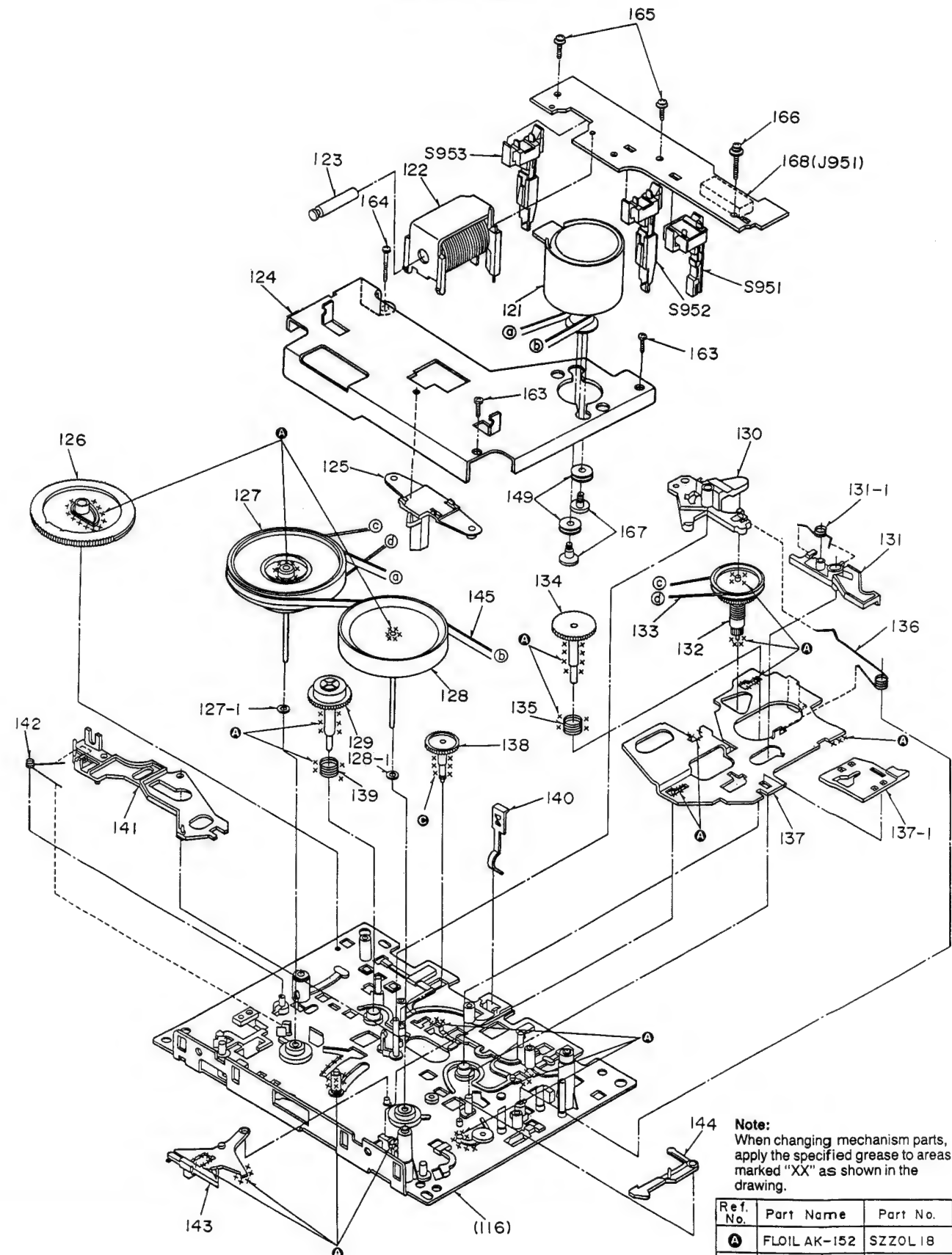
(Top view)



Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the
drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-152	SZZOL 18
C	FLOIL 947 P	RZZOL 02

(Bottom view)



Note:
When changing mechanism parts,
apply the specified grease to areas
marked "XX" as shown in the
drawing.

Ref. No.	Part Name	Part No.
A	FLOIL AK-152	SZZOL 18
C	FLOIL 947 P	RZZOL 02

REPLACEMENT PARTS LIST

Note: [M] indicates in Remarks columns parts that are supplied by MESA.

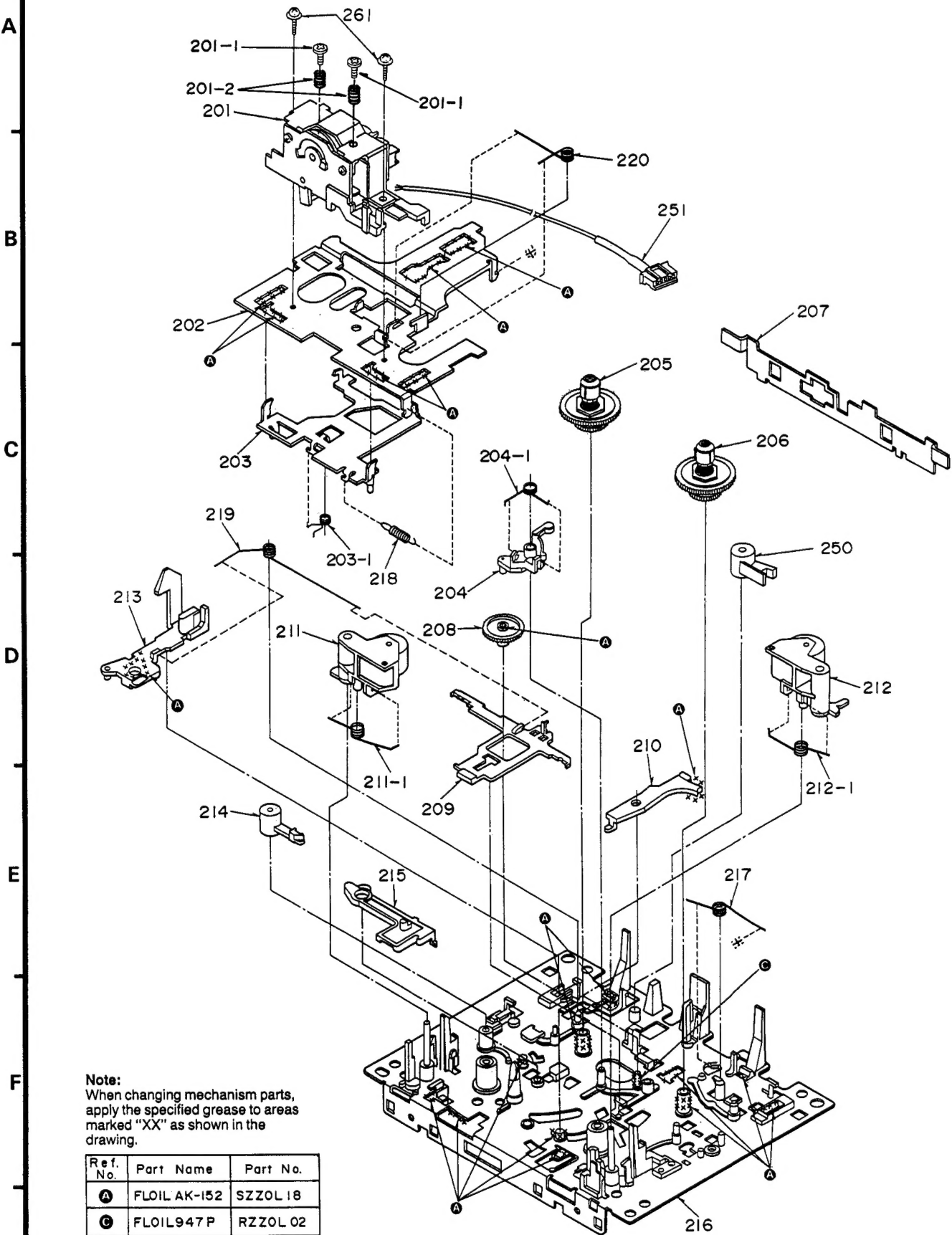
Ref. No.	Part No.	Part Name & Description	Remarks	Ref.	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST		139	RJQ112ZA	SPRING	
				140	RUS609ZC	TAPE PRESSURE SPRING	
				141	RUB514ZB	LEVER	
DECK1				142	RJW147ZA	SPRING	
101	RXQ0021	HEAD BLOCK (PLAYBACK)		143	RUB515ZA	LEVER	
101-1	RHE5152ZB	SCREW		144	RUB509ZA	LEVER	
101-2	RMB0331	CPRING		145	RDV108ZA	CAPSTAN BELT	
102	RJA793ZF	CHASSIS		146	RUB507ZD	EJECT ROD (R)	
103	RZLAR300A	LEVER ASS'Y		148	RJW144ZA	SPRING	
103-1	RJW143ZA	SPRING		149	RMG0102-1	RUBBER CUSHION	
104	IUB0089ZA	ARM		150	RNL180ZB	DAMPER ARM	
104-1	RJW148ZA	SPRING		151	REXX0088	LEAD WIRE BLOCK (3P)	[M]
105	1DM0018ZB	REEL TABLE (R) ASS'Y		161	XTW2+6L	SCREW	
106	1DM0017ZB	REEL TABLE (F) ASS'Y		163	XTN26+7J	SCREW	
107	RML0069-1	LEVER		164	RHE5203ZA	SCREW	
108	RDG5772ZC	GEAR		165	XTW2+8S	SCREW	
109	RUB508ZB	BRAKE ROD		166	XYC2+JF16	SCREW	
110	RUB506ZB	LEVER		167	RHD26002	SCREW	
111	IUB0088ZB	PINCH ROLLER (R) ASS'Y		168	RJS7T7ZA	CONNECTOR (7P), J951	
111-1	RMB0310	SPRING					
112	IUB0087ZB	PINCH ROLLER (F) ASS'Y					
112-1	RJW140ZC	SPRING					
114	RNL1ZD	DAMPER ARM					
115	RUB503ZD	MAIN LEVER					
116	RZUAR300A	CHASSIS ASS'Y					
117	RJW142ZA	SPRING					
118	RJD105ZA	SPRING					
120	RJW139ZA	SPRING					
121	RFM133ZA	DC MOTOR ASS'Y					
122	IUE0015ZB	PLUNGER					
123	RUB428ZE	MOVING IRON CORE					
124	RMA0102-1	PLATE					
125	RMD5014ZC	SPACER					
126	RDG5927ZG	GEAR					
127	1DM0037ZB	FLYWHEEL (F) ASS'Y					
127-1	RNW139ZA	WASHER					
128	1DM0038ZB	FLYWHEEL (R) ASS'Y					
128-1	RNW138ZA	WASHER					
129	1DG0006ZB	REEL TABLE GEAR ASS'Y					
130	RUB513ZD	LEVER					
131	IUB0091ZA	LEVER					
131-1	RJW146ZA	SPRING					
132	1DR0011ZB	PULLEY ASS'Y					
133	RDV90ZB	BELT					
134	RDG5769ZA	REEL TABLE GEAR					
135	RJQ111ZB	SPRING					
136	RJW145ZA	SPRING					
137	IUB0090ZA	ROD					
137-1	RUB512ZB	ROD					
138	RDG5773ZB	GEAR					

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
DECK2				241	RUB5142B	LEVER	
201	RXQ0019	HEAD BLOCK(REC./PLAYBACK)		242	RUW1472A	SPRING	
201-1	RHE5152ZB	SCREW		243	RUB5152A	LEVER	
201-2	RMB0331	SPRING		244	RUB5092A	LEVER	
202	RUA793ZF	CHASSIS		245	RDV1082A	CAPSTAN BELT	
203	RZLAR300A	ROD		249	RMG0102-1	RUBBER CUSHION	
203-1	RUW1432A	SPRING		250	RNL1802B	DAMPER ARM	
204	IUB00892A	ARM		251	REX0305-1	LEAD WIRE BLOCK(4P)	[M]
204-1	RUW1482A	SPRING		261	XTW2+6L	SCREW	
205	1DM00182B	REEL TABLE(R)ASS'Y		263	XTN26+7J	SCREW	
206	1DM00172B	REEL TABLE(F)ASS'Y		264	RHE52032A	SCREW	
207	RML0069-1	LEVER		265	XTW2+8S	SCREW	
208	RDG5772ZC	GEAR		266	XYC2+JF16	SCREW	
209	RUB5082B	BRAKE ROD		267	RHD26002	SCREW	
210	RUB5062B	LEVER		268	RJS10T72A	CONNECTOR(10P), J971	
211	IUB00882B	PINCH ROLLER(R)ASS'Y					
211-1	RMB0310	SPRING					
212	IUB00872B	PINCH ROLLER(F)ASS'Y					
212-1	RUW1402C	SPRING					
213	RUB5412B	EJECT ROD(L)					
214	RNL12D	DAMPER ARM					
215	RUB5032D	MAIN LEVER					
216	RZUAR300A	CHASSIS ASS'Y					
217	RUW1422A	SPRING					
218	RUD1052A	SPRING					
219	RUW1672A	SPRING					
220	RUW1392A	SPRING					
221	RFM1332A	DC MOTOR ASS'Y					
222	IUED0152B	PLUNGER					
223	RUB4282E	MOVING IRON CORE					
224	RMA0102-1	PLATE					
225	RMD50142C	SPACER					
226	RDG5927ZG	GEAR					
227	1DW00372B	FLYWHEEL(F)ASS'Y					
227-1	RNW1392A	WASHER					
228	1DW00382B	FLYWHEEL(R)ASS'Y					
228-1	RNW1382A	WASHER					
229	1DG00062B	REEL TABLE GEAR ASS'Y					
230	RUB5132D	LEVER					
231	IUB00912A	LVER					
231-1	RUW1462A	SPRING					
232	1DR00112B	MAIN PULLEY ASS'Y					
233	RDV902B	BELT					
234	RDG57692A	REEL TABLE GEAR					
235	RUQ1112B	SPRING					
236	RUW1452A	SPRING					
237	IUB00902A	ROD					
237-1	RUB5122B	ROD					
238	RDG57732B	GEAR					
239	RUQ1122A	SPRING					
240	RUS6092C	TAPE PRESSURE SPRING					

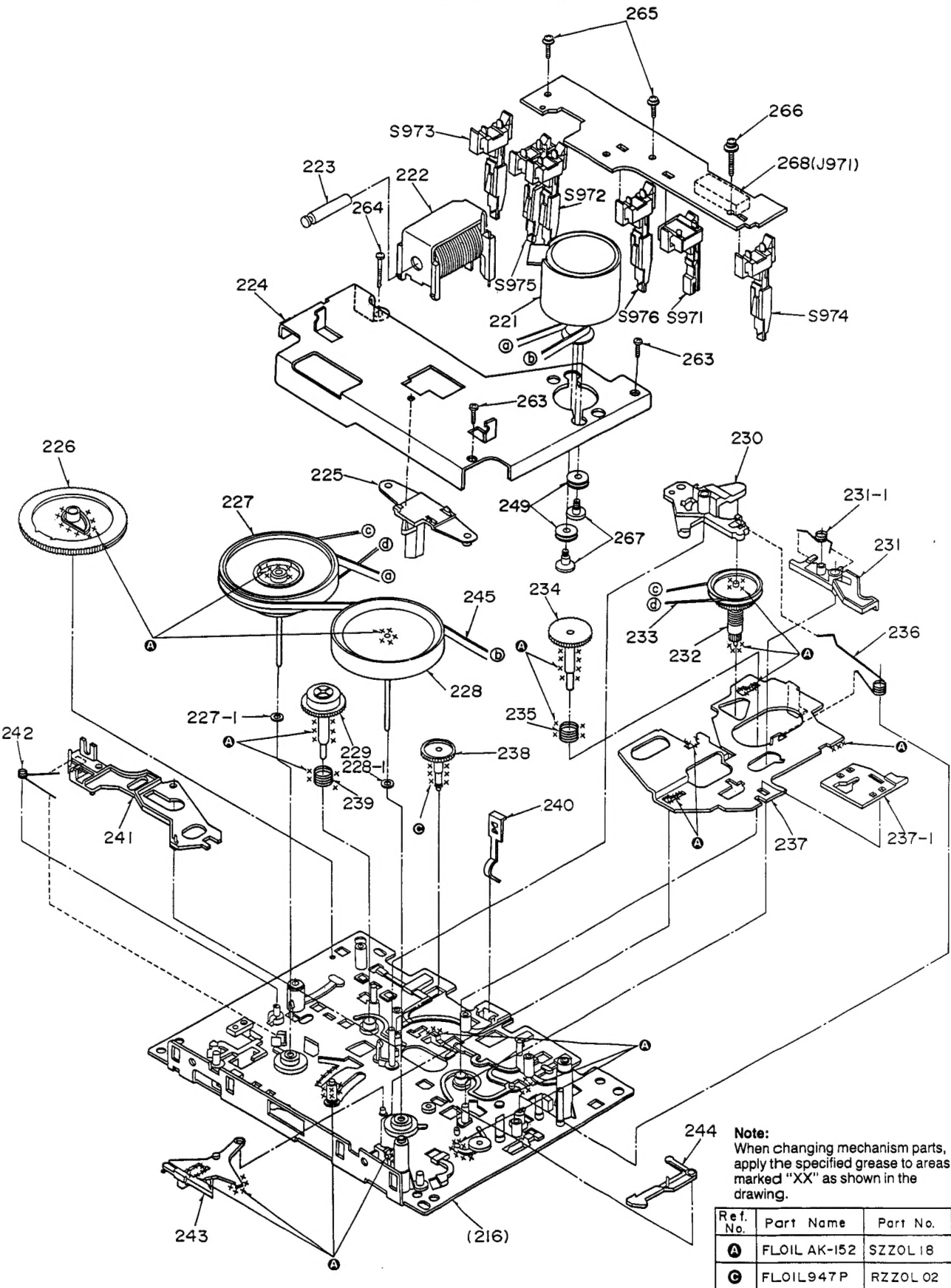
EXPLODED VIEWS

- Mechanical parts
- DECK 2

(Top view)

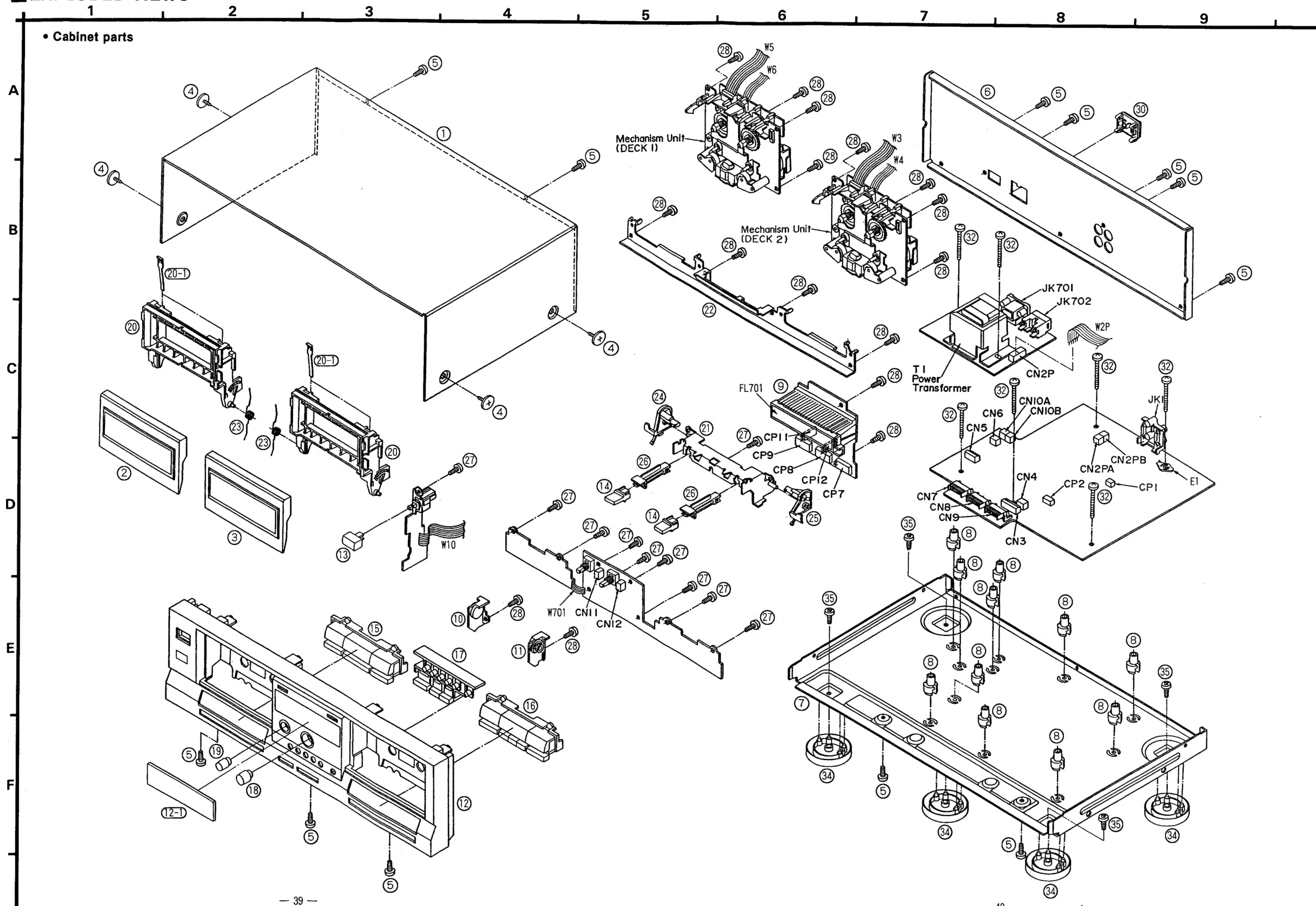


(Bottom view)



EXPLODED VIEWS

• Cabinet parts



REPLACEMENT PARTS LIST

Notes: *Important safety notice:

Components identified by Δ mark have special characteristics important for safety.

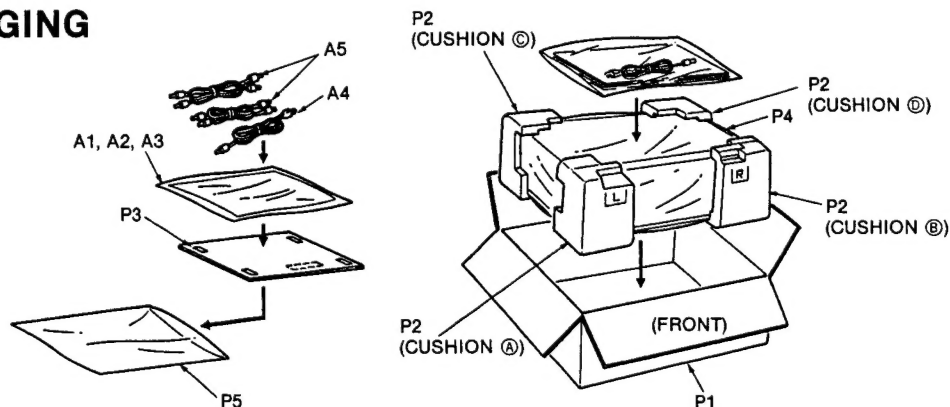
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

*[M] indicates in Remarks columns parts that are supplied by MESA.

Ref. No.	Part No.	Part Name & Description	Remarks	Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		32	XTB3+20JFZ	SCREW	
1	RM0260-1K	CABINET		34	RFKNSTR252PK	FOOT ASS'Y	[M]
2	RFLSTR262PK	CASSETTE LID ASS'Y (DECK1)	[M]	35	XTB3+6J	SCREW	
3	RFLSTR252PB	CASSETTE LID ASS'Y (DECK2)	[M]			PACKING MATERIAL	
4	SNE2129-1	SCREW		P1	RPG2306	CARTON BOX	[M]
5	XTBS3+8JFZ1	SCREW		P2	RPN0296	CUSHION	
6	RGR0112K-B1	REAR PANEL	[M]	P3	RPQ0164	ACCESSORIES PAD	
7	RMK0026-7	BOTTOM CHASSIS		P4	RPF0100	PROTECTION COVER (THIS UNIT)	[M]
8	RKQ0089	P. C. B. HOLDER		P5	XZB24X34C04	PROTECTION BAG (F. B. , ACC.)	
9	RMN0112	FL HOLDER				ACCESSORIES	
10	RFKNSDN7AK	DAMPER GEAR ASS'Y (L)		A1	RQT2705-P	INSTRUCTION MANUAL	[M]
11	RFKNSDN7BK	DAMPER GEAR ASS'Y (R)		A2	RQA0085	WARRANTY CARD	
12	RFGSTR262PK	FRONT PANEL ASS'Y	[M]	A3	RQCB0391	SERVICENTER LIST	
12-1	RKW0139A-K1	TRANSPARENT PLATE		A4	SJA172	AC POWER SUPPLY CORD	Δ
13	RGU0030	BUTTON, POWER		A5	SJP2249-3	STEREO CONNECTION CABLE	
14	RGU0070	BUTTON, EJECT				<GREASE OR JIG/TOOL>	
15	RGU0520A-K	BUTTON, OPERATION (DECK1)				TEST TAPE	
16	RGU0519A-K	BUTTON, OPERATION (DECK2)		SA1	QZZCFM	OVERALL ADJUSTMENT CHECK	
17	RFKNSTR232P	BUTTON ASS'Y, SYNCHRO		SA2	QZZCWAT	TAPE SPEED ADJUSTMENT	
18	RGW0109-K	KNOB, REC LEVEL		SA3	QZZCRV2	BLANK TAPE (Normal Position)	
19	RGW0110-K	KNOB, BALANCE		SA4	QZZCRX1	BLANK TAPE (Cr02 Position)	
20	RKF0169A-K	CASSETTE HOLDER		SA5	QZZCR25	BLANK TAPE (Metal Position)	
20-1	QBP2006A	TAPE PRESSURE SPRING				GREASE	
21	RMA0406	EJECT ANGLE		SA6	SZZ0L18	FLOIL AK-152	
22	RMA0407	MECHANISM ANGLE		SA7	RZZ0L02	FLOIL 947P	
23	RME0068-1	SPRING					
24	RML0185-1	EJECT LEVER (L)					
25	RML0186-1	EJECT LEVER (R)					
26	RMM0014	EJECT ROD					
27	XTBS26+8J	SCREW					
28	XTB3+10JFZ	SCREW					
30	SJS9331A	AC OUTLET COVER					

PACKAGING



<CUSHION (A), (B), (C), (D), Part No.: RPN0296>